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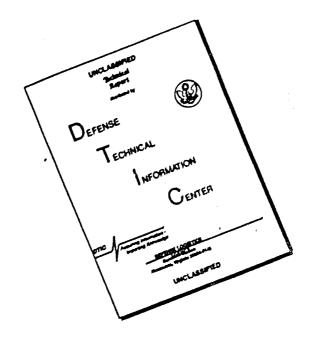
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Structural Flight Loads Data from Jet-Tanker Operations

ELMER M. PERRY JOHN F. RIEVLEY

STRUCTURES BRANCH FLIGHT DYNAMICS LABORATORY

NOX 6/- 3-6

JANUARY 1961



WRIGHT AIR DEVELOPMENT DIVISION

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Structural Flight Loads Data from Jet-Tanker Operations

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STRUCTURES BRANCH
FLIGHT DYNAMICS LABORATORY

January 1961

Project No. 1367 Task No. 13637

WRIGHT AIR DEVELOPMENT DIVISION
AIR RESEARCH AND DEVELOPMENT COMMAND
UNITED STATES AIR FORCE
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

FOREWORD

This report was prepared in the Structural Loads Section, Structures Branch, Flight Dynamics Laboratory, Aeromechanics Division, Directorate of Advanced Systems Technology, Wright Air Development Division, Wright-Patterson Air Force Base, Ohio. Data acquisition and processing were accomplished by the University of Dayton Research Institute, Dayton, Ohio, under Air Force contract AF 33(616)-5406 and follow-on contract AF 33(616)-6719, Research and Development Project 1367, "Structural Design Criteria," Task 13637, "Collection and Statistical Analysis of Structural Flight Data." Mr. Cyril G. Peckham was the contractor supervisor. The authors, Messrs. John F. Rievley and Elmer M. Perry of the Flight Dynamics Laboratory, were the engineers in charge of the basic research and development work.

The data upon which this report is based were collected on three KC-135A aircraft from January 1959 to March 1960 while these aircraft were based at Castle Air Force Base and another three KC-135A aircraft from January 1959 to February 1960 while these latter aircraft were based at Walker Air Force Base.

Acknowledgement is made of the assistance lent the authors during this program by personnel of the Strategic Air Command, the Air Materiel Command, and the University of Dayton Research Institute.

ABSTRACT

Structural flight loads data from Strategic Air Command KC-135A air-craft performing normal aerial refueling missions and aerial refueling training flights are presented in this report. The information gathered from this program will be used to verify or refine the load spectrum and should result in improved structural design criteria for future weapon systems.

PUBLICATION REVIEW

This report has been reviewed and is approved.

FOR THE COMMANDER:

OHN P. TAYYOR

Chief, Flight Dynamics Laboratory

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LIST OF SYMBOLS

 C_{N_a} - Normal lift coefficient

g - Unit of acceleration (load factor) due to gravity, 32.2 feet

per second per second

K_w - Dimensionless gust factor (MIL-A-8861)

KIAS - Indicated airspeed, knots

m - Slope of lift curve, per radian

 n_z - Normal load factor, g's

Δn_z - Incremental normal load factor, g's

S - Wing area, square feet

 U_{d_m} - Derived equivalent gust velocity, feet per second

 $U_{d_e} = \frac{498 \text{ W} \Delta n}{K_w V_e \text{ mS}}$

V_D - Dive speed, knots

Ve - Equivalent airspeed, knots

V_H - Level flight high speed, knots

W - Aircraft gross weight, pounds

SECTION I

INTRODUCTION

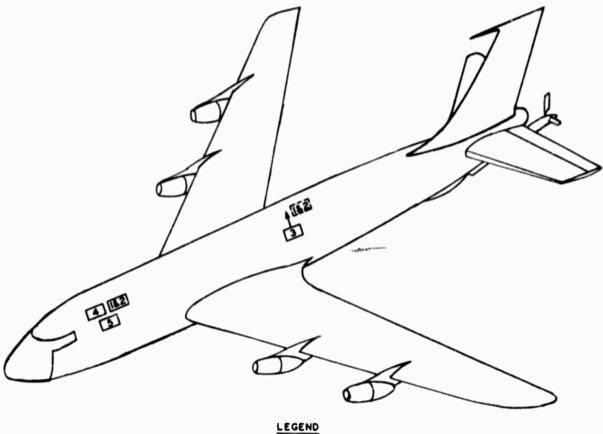
The rash of fatigue failures which occurred on aircraft structural components during 1958 made it necessary to accelerate the flight load recording program to determine and improve the fatigue life of USAF aircraft and to refer design criteria to the development of future flight vehicles. The current high-performance design concept, which has resulted in more flexible wings, and increased efficiency in structural design coupled with operation at overload weights and low altitudes have contributed materially to this critical condition. Although improvement in aircraft design from a fatigue standpoint is not likely on current aircraft; it is imperative to collect flight load data on USAF aircraft in service and evaluate these data in terms of aircraft life for the development of design criteria applicable to future flight vehicles.

This requirement for a more accurate knowledge of the structural fatigue and aircraft life was also responsible for the initiation of the "USAF Aircraft Structural Integrity Program" which involves the collection of in-service loads, flight testing, development of test spectra, and repeated load tests. This Laboratory is primarily concerned with the in-service load collection, flight test, and spectra development phases. Technically, the purpose of the "USAF Aircraft Structural Integrity Program" is to increase Air Force technical knowledge of structural fatigue criteria, to establish design load parameters for new aircraft, to determine structural modification requirements for existing aircraft, to accurately project inspection requirements, and to provide tactical commanders with technical data for planning new mission concepts.

In order to achieve these objectives, this Laboratory is responsible for instrumenting current and new USAF operational aircraft to record flight load data and then to analyze these data for development of fatigue spectra and criteria. A minimum of 1000 hours of realistic flight load data is generally required for each airplane type while performing normal operational missions. In addition, special tests are being conducted to provide a world model of turbulence. Results of these studies will enable the development of realistic dynamic loading fatigue test spectra which will be expressed as cycles of load at various load levels. These spectra will, in turn, be utilized in repeated load tests.

Due to the rash of failures which occurred on aircraft structural components during 1958, it was recommended by Wright Air Development Division to Air. Research and Development Command and Air Material Command that a recording program be initiated on the KC-135A aircraft. Consequently, a flight loads program was initiated at Castle and Walker Air Force Bases to gather maneuver and gust load data.

Boeing Airplane Company, Seattle Division, had currently established a program to reduce and process maneuver loads data from KC-135 aircraft. It was determined that these programs (Boeing, Wright Air Development Division Flight Loads Recording Program) would be made compatible.



INDICATES FORCE FOR POSITIVE ACCELERATION I-OSCILLOGRAPH - BRIDGE BALANCE

2- GAGE SUPPLY

3- ACCELEROMETER - VERTICAL

4-AIRSPEED AND ALTITUDE TRANSDUCERS

5 - LANDING GEAR SAFETY SWITCH RELAY CL3 EQUIPMENT LOCATION ON WALKER AIRCRAFT

EQUIPMENT LOCATION ON CASTLE AIRCRAFT

Figure 1. External Configuration of KC-135

SECTION II

DISCUSSION

A. General Discussion

A total of 1167 hours of usable data was collected from the KC-135A aircraft at Castle and Walker Air Force Bases. The acquired data consisted of 556.3 hours collected from Castle Air Force Base and 610.7 hours collected from Walker Air Force Base.

Among the types of missions flown were: navigation, training, transition, refueling, and test. The historical data table indicated a large percentage of time was spent during training missions. Although desirable, it was not possible to separate the training missions from other types, neither by inspection of the acceleration traces nor by the information contained on the log sheet.

B. Instrumentation

The recording system consisted of Model 409 Century oscillographs and Model 1809 Century bridge control units. These instruments recorded a continuous time history on photographic paper sensitized by the reflected light from mirrors mounted on very sensitive galvanometers. Although twelve channels of information could have been recorded, only four of these were employed to transcribe velocity, acceleration, and altitude versus time information. These instruments were installed in three KC-135A aircraft stationed at Walker AFB, New Mexico, and in another three KC-135A aircraft stationed at Castle Air Force Base, California, from January 1959 to March 1960.

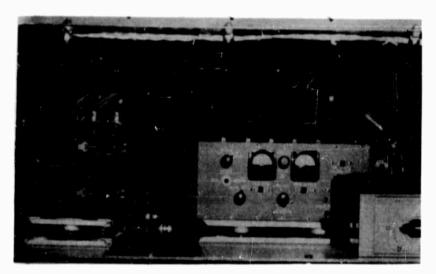


Figure 2. Recording Equipment

Located in Castle Aircraft

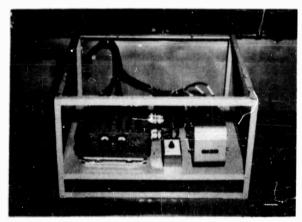


Figure 3. Recording Equipment

Located in Walker Aircraft

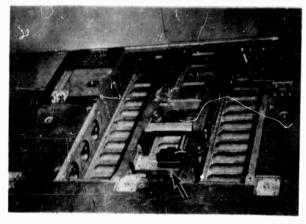


Figure 4. Accelerometer Located in Cargo Area

C. Data Reduction

The data were read from the oscillograph chart by employing the semi-automatic Benson-Lehner Oscar oscillograph reader. Data which were read from the airspeed, altitude, and acceleration traces depended on the occurrence of significant acceleration trace deflections. The 1.0 g line served as the norm from which acceleration deflections were read. Two threshold levels, one above the norm at 1.1 g and the other below the norm at 0.9 g, determined the acceleration deflections to be measured. Airspeed and altitude trace deflections were read coincident with significant acceleration deflections.

Any acceleration trace departing from the norm which crossed either of the thresholds and then returned to the norm within 2 seconds was attributed to a gust. In each instance of either positive or negative deflection from the norm, only the point of maximum deviation from the norm was measured.

Any acceleration deflection departing from the norm which crossed either of the thresholds and then returned to the norm after 2 seconds was attributed to a maneuver. While there was one reading in each instance at the point of maximum departure from the norm, i.e., the so-called "primary maneuver peak," other peaks, termed "secondary maneuver peaks," were read if a condition was fulfilled with each. This condition was that each of the vertical displacements from the preceding valley (peak) to the peak (valley) and from the peak (valley) to the following valley (peak) measured a minimum of 0.1 g.

It has been estimated that the error in the data presented in this report should not exceed 8 percent.

D. Method of Analysis

Probability curves were constructed using the cumulative frequency of occurrence of an acceleration in excess of a given acceleration experienced as a function of time, i.e., the number of minutes of flight time necessary before one such acceleration would be expected to occur. These values of flight time were plotted on semi-log paper versus the given acceleration, and a curve was drawn through the points. The plot resembles, generally, a Pearson Type I or III curve depending on the type of distribution provided by the data.

Using the same method above, probability curves for gust were constructed using the cumulative frequency of occurrence of a gust velocity in excess of a given gust velocity as a function of statute miles, that is, the number of statute miles of flight necessary before one such gust velocity would be expected to occur.

To further illustrate the operational comparisons of the missions flown at the two bases, histograms showing the percentages of flight time spent at selected altitude and airspeed ranges are presented in Figures 12, 13, 14, and 15.

A comparison of load factors resulting from maneuver and gust loads is shown in Figures 8 and 9.

The derived gust velocities were computed from the equation $U_{de} = \frac{498 \text{ W} \Delta n}{K_W V_e \text{ mS}}$ (MIL-A-8861) using incremental load factors due to gust and maneuvers. This type aircraft was designed to withstand gusts up to 65 feet per second at the recommended slow down speed for gust penetration and gusts up to 50 feet per second at the maximum limit speed of the aircraft (350 KIAS). A review of the data gathered in this program indicates that no 50-feet-per-second gusts were encountered. The maximum gust velocity recorded during this program was 47 feet per second.

Tabulations of the distribution of maneuver load factors, gust load factors, and derived gust velocity by equivalent airspeed by gross weight within altitude ranges are presented in Tables 1 through 40.

SECTION III

SUMMARY AND CONCLUSIONS

A general summary and conclusions relative to the acquired data from each Air Force base are presented below.

A. Data Collected at Castle Air Force Base

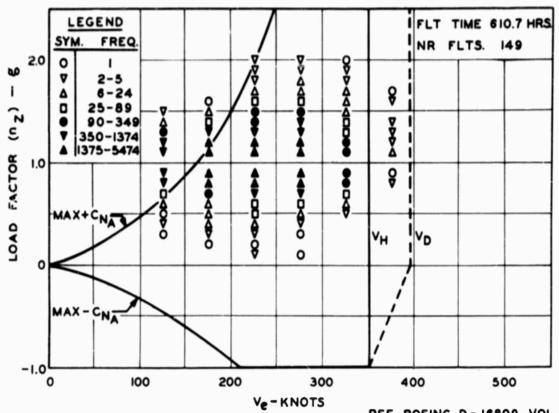
- 1. The histogram in Figure 12 indicates that 45.9 percent of the total flight time was expended within the 30,000- to 40,000-foot altitude range. The 747 "touch and go" landings account for the 21.7 percent of total flight time expended within the 0- to 5,000-foot altitude range. Although 45.9 percent of the total flight time was expended within the 30,000- to 40,000-foot range, of the total of 12,004 accelerations (g) experienced as a result of gust encounters at all altitudes, 9,234 of these occurred within the 0- to 5,000-foot range.
- 2. The histogram in Figure 14 indicates that 37.6 and 38.6 percent of the time was spent in the 200- to 250-knot and the 250- to 300-knot ranges, respectively.

B. Data Collected at Walker Air Force Base

- 1. The histogram in Figure 13 indicates that 46.5 percent of the total flight time was expended within the 30,000- to 40,000-foot altitude range.
- 2. The histogram in Figure 15 indicates that 58 percent of the total flight time was expended within the 200- to 250-knot range.

C. General Comparisons

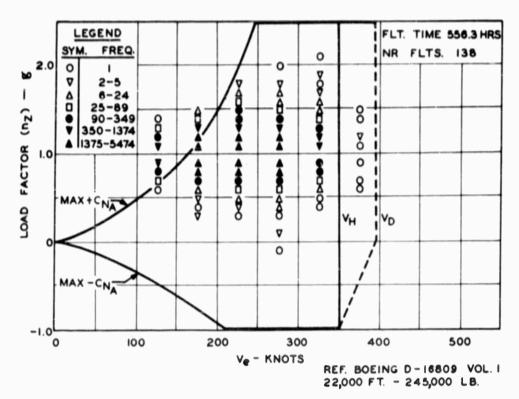
- 1. The histograms indicate that the operational altitude of the aircraft at the two bases was within the 30,000- to 40,000-foot range.
- 2. The probability curves in Figure 8 indicate that the maneuver load data acquired from Walker AFB were more severe than the data acquired from Castle AFB.
- 3. The probability curves in Figure 9 indicate no appreciable difference between the accelerations due to gusts experienced by the aircraft at Walker AFB and at Castle AFB up to the first 2000 minutes of the respective flight times. After the 2000-minute period the accelerations due to gusts experienced by the aircraft at Castle AFB became more severe than the accelerations experienced by the aircraft at Walker AFB.
- 4. From observation of the probability curves in Figures 10 and 11, the derived gust velocities based on maneuver loads are more severe than those based on gust loads.



REF. BOEING D-16809 VOL. I 22,000 FT. - 245,000 LB.

AIRSPEED-Ve (K)		150	200	250	300	350	400	450	
LOAD FACTOR (6)	TO 149	TO 199	TO 249	TO 299	TO 349	TO 399	TO 449	TO 499	TOTAL
0.05 TO 0.14			2	1					3
0.15 TO 0.24		1	1						2
0.25 TO 0.34	1	2	3	1					7
0.35 TO 0.44	2	8	1.5	5					30
0.45 TO 0.54	I	8	32	17	2				60
0.55 TO 0.64	8	23	85	82	9				207
0.65 TO 0.74	77	208	460	427	40				1212
0.75 TO 0.84	767	1660	2327	2046	151	4			6955
0.85 TO 0.90	1019	1658	3109	2767	156	1			8710
1.10 TO 1.14	1373	2703	4584	4674	267	6			13607
1.15 TO 1.24	830	2803	3450	3811	177	2			1 1073
1.25 TO 1.34	123	542	1163	1352	88	2			3270
1.35 TO 1.44	11	48	281	386	40	2			768
1.45 TO 1.54	2	6	97	127	16				248
1.55 TO 1.64		1	39	38	10	2			90
1.65 TO 1.74			12	17	7	1			37
1.75 TO 1,84			· 3	7	3				13
1.85 TO 1.94			3	4	2				9
1.95 TO 2.04			3	4	1				8
TOTAL	4214	9671	15669	15766	969	20			46309

Figure 5. V-n Diagram and Tabulation of Gusts and Maneuvers, KC-135A Castle AFB



AIRSPEED - Ve (K) TOTAL TO TO TO TO TO TO LOAD FACTOR (8) -0.05 TO -0.14 0.04 TO -0.04 0.05 TO 0.14 0.15 TO 0.24 0.25 TO 0.34 0.35 TO 0.44 0.45 TO 0.54 0.55 TO 0.64 T 0.65 TO 0.74 0.75 TO 0.84 0.85 TO 0.90 1.10 TO 1.14 1.15 TO 1.24 TO 1.34 1.25 1.35 TO 1.44 1.45 TO 1.54 TO 1.64 1.55 1.65 TO 1.74 1.75 TO 1.84 TO 1.94 1.85 1.95 TO 2.04 2.05 TO 2.14 TOTAL

Figure 6. V-n Diagram and Tabulation of Gusts and Maneuvers, KC-135A Walker AFB

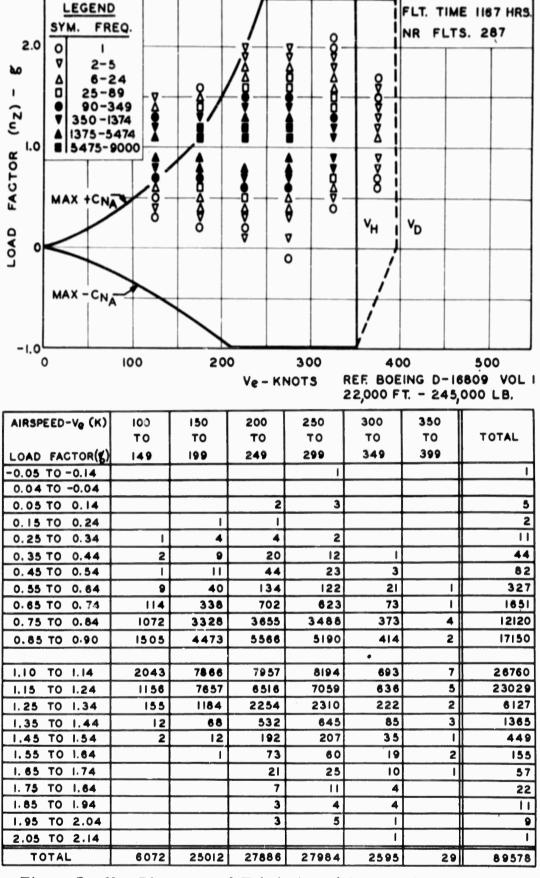


Figure 7. V-n Diagram and Tabulation of Gusts and Maneuvers,
Composite of Castle and Walker AFB's

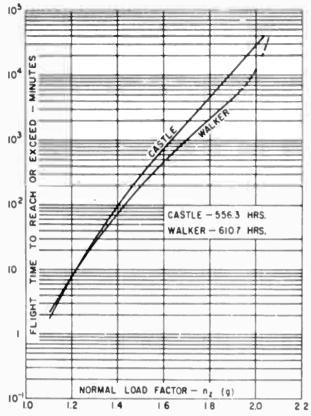


Figure 8. Probability Curves Maneuver Loads, Comparison of
Castle and Walker AFB's

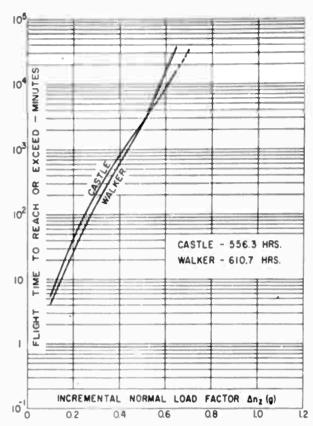


Figure 9. Probability Curves Gust Loads, Comparison of
Castle and Walker AFB's

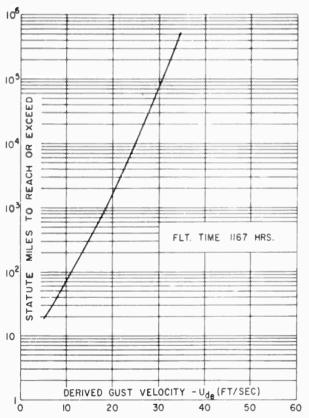


Figure 10. Probability Curve -Gust Velocity by Gust Load Factor, Composite of Castle and Walker AFB's

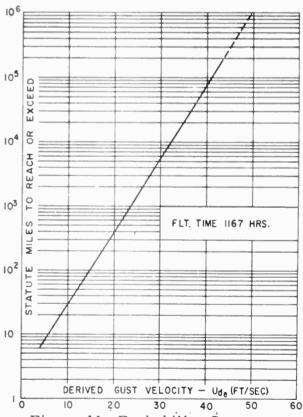
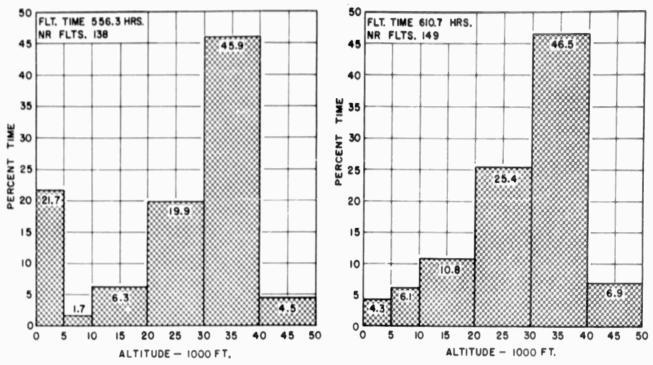


Figure 11. Probability Curve Gust Velocity by Gust and
Maneuver Load Factor,
Composite of Castle and Walker AFB's



60

Figure 12. Percent of Total Flight Spent at Selected Alitudes Castle AFB

Figure 13. Percent of Total Flight Spent at Selected Altitudes, Walker AFB

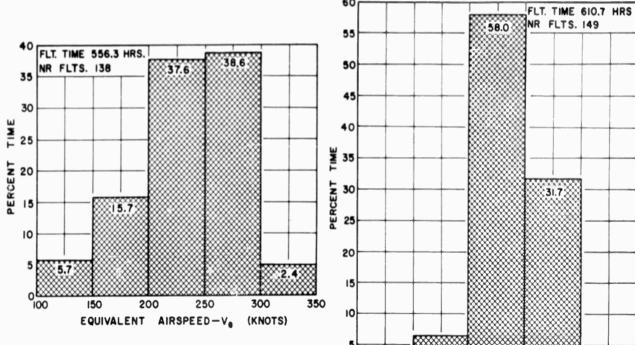


Figure 14. Percent of Total Flight Spent at Selected Airspeeds, Castle AFB

Figure 15. Percent of Total Flight Spent at Selected Airspeeds, Walker AFB

EQUIVALENT AIRSPEED - Ve (KNOTS)

250

300

350

200

100

TABLE 1 Castle AFB

Distribution of Incremental Gust Load Factors by Equivalent Alrapsed by Gross Weight within Alistude Range: 0 to 1,000 fact

				iitude			1,000	feet	•						
Gross Weight 110,000 to 140,000		1r	crem	enta)	Load I	Factor	≜n _a	(g)						Total No. ≜n,	Fit. Time
Airspeed (K) -, 9 -, 8 -, 7 -, 6 -, 5 -	4	٠, ١	-, 2	1	1		2 . 3	. 4	, 5	. 6	. 7	, 8		9 (g)	(Min.)
.00 to 150				1	4	3								7	10.3
150 to 200															13.2
200 to 250															•1
Total*				1	4	2								7	31.6
Gross Weight: 140,000 to 170,000		lne	reme	ntal L	,07 '	actor	Ang (g)						Total	
Airspeed (K) -, 9 -, 8 -, 7 -, 6 -, 5 -,	. 4	3	2	÷. 1	. 1	. 2	. 3	. 4	. 5	_ 6	. 7	. 8	. 9	No. An _z	Flt. Time (Min.)
	ı	5	26	66	94	42	2							236	440.3
150 to 200	1	7	106	119	220	130	12	1	2					598	354.4
200 to 250			4	14		5								51	10.5
250 to 300		2		•	5	3								16	1 • 3
300 to 350															• 1
Totals	2	14	136	20>	327	100	14	1	2					881	#06 • 6
Gross Weight 170,000 to 200,000		Inc	reme	ntal L	oad F	actor	Ang (g)						Total No. Ang	Fli. Time
Airspeed (K) 9 8 7 6 5	4	3	2	1	. 1	. 2	. 3	. 4	. 5	. 6	. 7	. 8	. 9		(Min.)
100 to 150		ż	22	34	74	3 6	10							201	87>.7
150 to 200	1	13	159	359	>3>	285	24	2						1376	969.7
200 to 250			2	14	8	7	3							34	20.1
250 to 300															• 3
Totals	1	16	183	427	617	330	37	2						1613	1865.8
Gross Weight 200,000 to 230,000		Inc	remei	ntal L	oad Fa	ctor	An _z (g	1)						Total No. Anz	Flt. Time
Airspeed (K)98765	4 -	-, 3	2	1	. 1	. 2	, 3	. 4	. 5	. 6	. 7	, 8	, 9	(g)	(Min.)
100 to 150				2										4	6.6
150 to 200			7	21	10	5								43	35.7
200 to 250			4	15	•	3								28	11.3
250 to 300			3	5	3									11	2 • 3
300 to 350															•1
Totals			14	43	19	8								84	50.0
Gross Weight. 230,000 to 260,000							_							Total No. Δn_z	Flt. Time
Airspeed (K) 9 8 7 6 5	4	3	2	1	. 1	. 2	. 3	. 4	. 5	. 6	. 7	. 8	. 9	(g)	(Min.)
100 to 150 150 to 200															2+2
			1		3									4	8.7
200 to 250 '250 to 300				2	3	1								6	7.9
300 to 350			1	1										2	1 • 4
				1		2								3	• 4
Totals			2	4	6	3								15	20.6
Gross Weight: 260,000 to 290,000		Incr	ement	al Lo	ad Fac	tor	Δn. /a\								
Airspeed (K)987654										,				Total No. Anz	Flt. Time
100 to 150		-		4		. 4	, ,	. 4	. 5	. 6	. 7	. 8	. 9	(g)	(Min.)
150 to 200															• 3
Totals															• 6
															• 9

TABLE 2 Castle AFB

Distribution of Incremental Gust Load Factors
by Equivalent Airspeed by Gross Weight
within Altitude Range, 1,000 to 2,500 feet

within Altitude Range, 1,000 to 2,500 feet Gross Weight 110,000 to 140,000 Incremental Load Factor An. (g) Total															
Gross Weight 110,000 to 140,000		lnc	remer	stal Lo	ad Fa	ctor	An _a (g)							No Ang	Flt. Time
Airspeed (K) -, 9 -, 8 -, 7 -, 6 -, 5	4	3	2	1	. 1	. 2	. 3	. 4	. 5	6	. 7	. 8	. 9	(g)	(Min.)
100 to 150				1	4									>	25.8
150 to 200					1	2	3							•	19.7
200 to 250			1	1	1	2		1	1	1					4.2
250 to 100			•	•	•	-		•							• 7
Totals														4.4	
, 0,44,4			1	5	•	4	3	1	1	1				19	50.4
Gross Weight 140,000 to 170,000		lnc	renven	tal Lo	ad Fas	tor	Δn, (g)							Total	
•										,				No Ang	Elt. Time
Airspeed (K) 9 8 7 6 5	• . •					. 2		1	. 5	6	, 7	. 8	. 9	(g)	(Min.)
100 to 100		2	54	0.0	75	19	2							225	216.3
150 to 200	2	12	162	280	-11	234	24	1						1126	670.9
200 to 2 50	1	2	3 0	37	3.0	34	>	1						156	33.6
250 to 300	1	>	31	26	51	42	11	1						168	20 • 1
300 to 350		3	10	46	1.1	9	>	2	1					45	4+3
Totals	4	24	300	415	>#6	338	47	>	1					1720	945.2
Gross Weight 170,000 to 200,000		lno	reme	ntal L	oad Fa	ctor	$\Delta n_{g} \cdot \{g$)						Total No An,	Flt. Time
Airspeed (K) +, 9 -, 8 -, 7 -, 6 -, 5*	4	-, 3	2	1	. 1	. 2	3	4	. 5	6	. 7	8	. 9	(g)	(Min.)
100 to 150		4	. 23	30	31	14								107	275.7
150 to 200		14	321	572	815	>/0	46							¿341	2120.2
200 to 250	•	1	34	42	36	24								145	99.4
250 to 300 "							6	2							
	2	5	11	23	36	23	3	2						105	40.3
300 to 350				4	1	4	1							10	2 • 2
Totals 1	4	24	189	6/6	914	635	27	8						2708	2543.8
Gross Weight 200,000 to 230,000		ln	reme	ntal L	oad Fa	ictor	Δn _s (g	()						Total No Ana	Fit. Time
Airspred (K) -, 9 -, 8 -, 7 -, 6 -, 5	4	-, 3	2	1	. 1	. 2	. 3	4	. 5	. 6	. 7	. 8	. 9	(g)	(Min.)
100 to 150															2.6
150 to 200			1	>	4	3								13	24+1
200 to 250		1	11	24	14	4	1							55	10.2
250 to 300		d	20	3 6	3 8	29	2	1						131	28.8
300 to 350		1	à	5	6	5	2							26	0.5
Totals 1		4	35	7.2	62	4-1	5	1						221	78.2
Gross Weight 230,000 to 260,000		lnc	remei	ntal Lo	ad Fa	ctor	Δn _a (g)							Total	
Airspeed (K) 9 8 7 6 5							_		6	6	7	ρ	0	No Anz	Flt. Time (Min.)
150 to 200									. ,	. 0	. 1	. 0	. 7	(6)	
				,	,										. 8
200 to 250				1	1									4	5.4
250 to 300			5	4	2	1								12	13.5
300 to 350				4	3									7	3 • 1
Totale			5	9	6	1								21	22.8
Gross Weight: 260,000 to 290,000		In	creme	ental L	oad F	actor	Δn _Z (g	g)						Total No. Δn_z	Flt. Time
Airspeed (K)98765	-, 4	3	2	-, 1	. 1	. 2	, 3	. 4	, 5	. 6	. 7	. 8	. 9		(Min.)
250 to 300															• B
Totals															. 8

TABLE 3 Castle AFB

Distribution of Incremental Gust Load Factors by Equivalent Alrepeed by Grose Weight within Altitude Range: 2,500 to 5,000 feet

		wit	hin Al	titude	Range	2,50	00 to 5	,000	feet						
Gross Weight: 110,000 to 140,000		1	ncrem	ental I	oad F	actor	Ang (g)						Total No. An	
Airspeed (K) -, 9 -, 8 -, 7 -, 6	5		2	1	. 1	. 2	. 3	. 4	, 5	. 6	. 7	. 8		9 (gl	{Min-l
100 to 150			2	2	2									•	. 9
150 to 200			1	1	2	1		1						•	3.4
200 to 250				1										1	5.8
250 to 300															3.3 .
Totale			3	•	4	1		1						13	13.4 "
Gross Weight 140,000 to 170,000		l	icremi	ental 1	oad F	actor	Δn _a (gl						Total No Ar	
Airspeed (K) -, 9 -, 8 - 7 -, 6 -, 5	4	-, 3	2	1	. 1	. 2	. 3	4	. 5	. 6	. 7	. 8	. 9		(Min-l
100 to 150			1	2	1		•					v		•	• 6
150 to 200			14	22	16	5								57	50.1
200 to 250		1	2	3		3	1							10	20 • 1
250 to 300	1	1	12	17	22	8	5		1					6.7	46.7
300 to 350	2	•	•	7	13	6	2	2	1					43	12.9
350 to 400															1 • 7
Totals	3	6	35	51	60	22		2	2					189	134+1
Gross Weight 170,000 to 200,000		Inc	remei	ntal Lo	oad Fa	ctor	Δn _a (g	}						Total	•
Airspeed (K) -, 9 -, 8 -, 7 -, 6 -, 5	4	-, 3	2	1	. 1	. 2	. 3	4	. 5	6	. 7	8, ,	. 9	No Ana	Flt. Time (Min.)
100 to 150				11	9	2								22	19.1
150 to 200	1	5	6.0	102	173	43	1							385	426.5
200 to 2 50			8	14	19	21	3	1						66	49+0
2 50 to 300	1	1	9	26	18	16		2						73	60.3
300 to 350		2	10	11	7	12	3	3	1	1				50	8.9
350 to 400															• 6
Totale	2	8	8 7	164	230	94	7	6	1	1				596	564.4
ross Weight 200,000 to 230,000		Inc.	remen	tal Lo	ad Fac	tor i	ån_ (g)							Total	
urspeed (K) 9 8 7 6 5							4.		. 5	. 6	. 7	. 8	. 9	No. • Δn _χ (g) •	Fig. Time (Min.)
150 to 200				1	1	1								3	29.8
200 to 2 50															2 • 3
250 to 300		2	6	18	13	7	2	3		1				52	45.8
300 to 350				1	3	2								6	20.8
Total®		2	6	20	17	10	2	3		1				1	98.7
ross Weight 230,000 to 260,000		Inc	remen	tal Lo	ad Fac	tor A	a n, (g)								
·										4	7		0	Total No. Anz	Flt. Time
irspeed (K)98765	4)	2	1		. 2	. ,	. 4	. 5	. 0	, (. 0	. 7	(g)	(Min.)
250 to 300				2											• 4
300 to 350			3	-										2	21•5
Totals			3	2										5	6.3
							A (a)							Tatal	
iross Weight: 260,000 to 290,000							∆n _z (g)		5	6	. 7	. 8	. 9	Total No. Anz	Flt. Time
irspeed (K) 9 8 7 6 5	4	-, 3	2	1	. 1	. 4	, 3	. 7	.)	. 0	. ,	, •	. ,	(g)	(Min.)
250 to 300															1.3
Totals															1.3

TABLE 4 Castle AFB

Distribution of Incremental Gust Load Factors by Equivalent Airspeed by Gross Weight within Altitude Range. 5,000 to 10,000 feet

	within Altitude Range. 5,000 to 10,000 feet	Total
Grobz Weight 110,000 to 140,000	Incremental Load Factor Ang (g)	No Ang Fit. Time
· ·	.,3 -,2 -,1 ,1 ,2 ,3 ,4 ,5 ,6 ,7 ,8	, 9 (gl (Min.)
100 to 150 150 to 200		2.4
200 to 250		11+1
250 to 300		3 • 10
300 to 350		4.4
Totals		19.6
104814		
Grozs Weight 140,000 to 170,000	Incremental Load Factor Ang (g)	Total No Ang Fit. Time
Airspeed (K) -, 9 -, 8 -, 7 -, 6 -, 5 -, 4	*,3 *,2 *,1 .1 ,2 ,3 4 ,5 ,6 ,7 8	(g)
200 to 250	1	1 7.0
250 to 300	1 8 21 10 10 2	52 /3+2
300 to 350	1 6 7 13 6	33 24.9
350 to 400		• 1
Totals	2 14 29 23 16 2	86 10>•2
		Total
	Incremental Load Factor \Delta n_g (g)	No Ang Fit. Time
	-,3 -,2 -,1 .1 .2 .3 .4 .5 .6 .7 .8	, 9 (g) (Min.l
100 to 150		• 3
150 to 200	1 6 1	8 24.0
200 to 250	1 1	4 >1+3
250 to 300	1 11 15 17 10 3 1	56 130.6
300 to 350	1 4 3	8 0.7
Totale .	1 13 16 28 14 3 1	76 21>.1
Gross Weight 200,000 to 230,000	Incremental Load Factor Ang (g)	Total
Airspeed (K) = 9 = 8 = 7 = 6 = 5 = 4	321 .1 .2 .3 .4 .5 .6 .7 .8	No Anz Fit. Time
200 to 250		(g) (Min.)
250 to 300	4 5 8 2	19 117.3
300 to 350	5 6 3 3	17 38.6
Totals	9 11 11 5	36 160.9
		•
Gross Weight. 230,000 to 260,000	Incremental Load Factor Ang (g)	Total
Airspeed (K) 9 8 7 6 5 4	321 .1 .2 .3 .4 .5 .6 .7 .8	No Δn_Z Flt. Time . 9 (g) (Min.)
200 to 2 50		2.3
250 to 300	3 1	4 43.5
300 to 350	1 4 4	9 14.1
Totals	1 7 5	13 59.9
Gross Weight: 260,000 to 290,000		Total No An _z Flt, Time
Airspeed (K) 9 -, 8 7 6 5 4	-,3 -,2 -,1 ,1 ,2 ,3 ,4 ,5 ,6 ,7 ,8	.9 (g) (Min.)
250 to 300	2 7 1	10 3+1
Totals	2 ′ 7 1	10 3+1

TABLE 5 Castle AFB

Distribution of Incremental Guet Load Factors by Equivalent Airspeed by Gross Weight within Altitude Range: 10,000 to 20,000 feet

within Altitude Range: 10,000 to 20,000 feet Total Gross Wetcht: 110,000 to 140,000 Incremental Load Factor Ang (g)																
Grose Weight 110,000 to 140,000			Inc	remen	tal Lo	ad Fa	ctor	Ang (g))						No. Ang	Flt. Time
Airspeed (K) 9 8 7 6 -	. 5 -	4	۰, 3	2	1	. 1	. 2	. 3	. 4	. 5	, 6	. 7	. 8	, 9	(g)	(Min.)
100 to 150																3.6
150 to 200																20.3
200 to 250						1									1	133.7
250 to 300																4.3
300 to 350																6.6
Totale						1									1	168.5
Gross Weight 140,000 to 170,000			lnc	remer	ntal Lo	ad Fa	ctor	Δn _π (g)						Total	
Airspeed (K) 9 8 7 6 -	6 .	4		2	*. 1	. 1	. 2	. 3	4	5	6	7	8	9	No Ang	
100 to 150							, ,		•		. •	• •	. •	, ,	(g)	(Min.)
150 to 200																7.1
200 to 250					2		1								3	131•5
250 to 300		2	1	14	21	14	17	3	1						73	187.4
300 to 350		۷					1 '	,	•							
Totale		,		1	1	6		2								60.4
I OCTIO		2	1	15	24	20	18	3	1						84	340.4
Gross Weight 170,000 to 200,000			lnc	reme	ntal Lo	ad Fa	ctor	Δn _z (g	}						Total No Ang	Flt. Time
Airspeed (K) 9 8 7 6	. 5 -	. 4	-, 3	2	1	. 1	. 2	. 3	4	. 5	. 6	. 7	. 8	. 9	(g)	(Min.)
100 to 150																•1
150 to 200					1										1	43.8
200 to 250	1		4	9	6	13	9	2	2						46	457.1
250 to 300		1	3	5	21	14	11	3	1						59	36>•0
300 to 350					1	4	2								7	21.6
350 to 400																• 6
Totals	1	1	7	14	29	31	22	5	3						113	888.2
			Tm o		ntal L	and E		An /a	.1						Total	
								Δn _z (g							No. ∆n _∑	Flt. Time
Airspeed (K) -, 9 -, 8 -, 7 -, 6	5	. 4	3	2	1	. 1	. 2	. 3	. 4	. 5	, 6	. 7	. 8	. 9	(g)	(Min.)
150 to 200																7.9
200 to 250			2	1	3	3	4		1						14	82.5
250 to 300				7	20	11	6	2		1					47	323.3
300 to 350		1		12	14	19	11	1	1						59	92.6
Totale		1	2	20	37	33	21	3.	2	1					120	506.3
Gross Weight. 230,000 to 260,000			Inc	remer	ntal Lo	ad Fa	ctor	Δn _z (g)						Total	E14
Airspeed (K) 9 8 7 6 -	.,5 -	, 4	3	2	1	. 1	. 2	. 3	. 4	. 5	. 6	. 7	. 8	. 9	No. ∆n _z (g)	Flt. Time (Min.)
200 to 250																4.5
250 to 300			1	3	9	5									18	103.9
300 to 350				1		1									2	28.0
Totals			1	4	9	6									20	136 • 4
Gross Weight: 260,000 to 290,000			Inc	remer	ntal Lo	ad Fa	ctor	∆n _z (g)						Total	Fig. T:
Airspeed (K) 9 8 7 6 -	. 5 -	. 4	3	2	1	. 1	. 2	. 3	. 4	. 5	. 6	. 7	. 8	. 9	No. ∆n _z (g)	Flt. Time (Min.)
250 to 300						1									1	7+1
Totals						1									1	7 • 1

TABLE 6 Castle AFB

Distribution of incremental Guet Load Factors by Equivalent Airspeed by Gross Weight within Altitude Range: 20,000 to 30,000 feet

			with	la Alti	tude F	lange:	20,00	10 to 3	0,000	feet					0.00	
Gross Weight: 110,000 to 140,000								An, (No. Ang	Flt. Time (Min.)
Airspeed (K) -, 9 -, 8 -, 7 -, 6	-, 5	-, 4	3	2	1	. 1	. 2	. 3	. 4	. 5	. 6	. 7	. 8	, 9	(g1	
100 to 150																•1
150 to 200															•	44.6
200 to 250			1		2	2	1	3	1			1			11	134.8
250 to 300		2	2	•	7	9	2		1			1			30	90.1
300 to 350						9	1								10	22.0
Totale		2	3	•	.9	50	4	3	2			2			51	291.6
Gross Weight 140,000 to 170,000			lnc	remer	tal Lo	ad Fa	ctor	∆n _s (g	}						Total	Fit. Time
Airspeed (K) -, 9 -, 8 -, 7 -, 6	-, 5	-, 4	-, 3	2	1	. 1	. 2	, 3	. 4	, 5	. 6	. 7	. 6	. 9	(g)	(Min.)
150 to 200						1	1								2	41.9
200 to 250				•	18	12	14	2	1						5 3	862.2
250 to 300			2	8	34	42	24	3	1	1					115	1317.4
300 to 350					25	13	22	4							64	103+2
Totale			2	14	77	48	61	9	2	1					234	2324.7
Gross Weight 170,000 to 200,000			lne	reme	ntal L	oad F	ctor	Ang (g)						Total No. Ang	Fit. Time,
Airspeed (K) 9 -, 8 7 6	-, 5	-, 4	-, 3	2	1	. 1	. 2	. 3	. 4	, 5	. 6	. 7	. 8	. 9	(g)	{Min.}
150 to 200																6 • 8
200 to 250	1		•	26	20	33	19	2	3	2					110	648. 5
250 to 300			1	9	14	19	11	2			1				57	1386.8
300 to 350		1	1		1		1								4	91.5
Totale	1	1	6	35	35	52	31	4	3	2	1				171	2133.6
Gross Weight: 200,000 to 230,000			lnc	reme	ntal L	oad F	ector	Δn _z (į	g)						Total	Flt. Time
Airspeed (K) -, 9 -, 8 -, 7 -, 6	٠.5	-, 4	٠, 3	2	1	. 1	. 2	. 3	. 4	. 5	. 6	. 7	. 8	. 9	(g)	(Min.)
150 to 200																• 4
200 to 250						3									3	223.4
250 to 300		1	3	13	31	39	12	, 5	1	1					106	1040.5
300 to 350				5	2	9	2								18	14>•0
350 to 400																• 3
Totals		1	3	18	33	51	14	5	1	1					127	1409.6
Gross Weight: 230,000 to 260,000			Inc	reme	ntal L	oad Fa	ctor	Δn _z (g	₍)						Total	
Airspeed (K) -, 9 -, 8 -, 7 -, 6								_		. 5	. 6	. 7	A	. 9	No. Δn_z	Fit. Time (Min.)
200 to 250		, ,		1			1					• •	. 0	• /	7	42.4
250 to 300				5				1	1						34	370•9
300 to 350		1		1				•	•						10	41.4
Totals		1		7		17		1	1						51	454.7
Gross Weight: 260,000 to 290,000			ln.	creme	ntal t	oad F	actor	Δn _z (g)						Total	
Airspeed (K) -, 9 -, 8 -, 7 -, 6										6	4	,	0	0	No. ∆n _z	Flt. Time (Min.)
•	5	-, 4	3	-, 2				. 3	. •	. >	. 0	. 1	, 8	. 9	(g)	
250 to 300					2		,								2	15+2
Totals					2										2	15.2

TABLE 7 Castle AFB

Distribution of Incremental Gust Load Factors by Equivalent Airspeed by Gross Weight within Altitude Range: 30,000 to 40,000 feet

			wit	hin Al	titude	Range	30,	000 to	40,00	0 feet					Total	
Gross Weight: 110,000 to 140,000								An _a (No, ≜n	
Airspeed (K) -, 9 -, 8 -, 7 -, 6	-, 5	- , 4	-, 3	2	1	l . !		. 3	. 4	. 5	. 6	. 7	. 8	. 9		174.9
150 to 200	1		1	•							1				29	1102.7
200 to 250	•			3							•				10	420.6
250 to 300															•7	1678.2
Totals	1		1	7	10) 20) (1			1				• '	101017
Gross Weight 140,000 to 170,000			10	ic remi	rntal	Load I	Factor	Δn _g (g)						Total	
Atrepred (K) -, 9 -, 8 -, 7 -, 6	5	-, 4	-, 3	2	1	1	. 2	. 3	. 4	. 5	. 6	. 7	. 8	. 9	No. ∆n (gl	d Fit. Time (Min.)
100 to 150																1.6
150 to 200				1				1							2	42.8
200 to 250		1	7	54	153	181	37	4							437	3363.4
250 to 300	1		1	22	46	6.3	24	2	1						160	1646.1
300 to 350																17.0
350 to 4 00																• 7
Totals	1	1		77	199	244	61	7	1						599	5071.6
Gross Weight 170,000 to 200,000			Inc	reme	ntal 1	oad F	ctor	An, (g	١						Total	
•											,				No Ang	Fit. Time
Airspeed (K) -, 9 -, 8 -, 7 -, 6	-, 5	4	-, 5	2	•.1	. 1	. 2	. 3	•	. 5	. 6	. /	. 8	. 9	(g)	(Min.1
150 to 200																0 • 3
200 to 250			6	6.3	92	115	37	3	1						317	2389•1
250 to 300		1	1	17	29	46	24	7		1					126	1842+6
300 to 350																12.8
Totals		ì	7	80	121	161	61	10	1	1					443	4252.6
Gross Weight 200,000 to 230,000			Inc	remer	tal Lo	oad Fa	ctor	Δn, (g))						Total	
Airspeed (K) -, 9 -, 8 -, 7 -, 6	, ·	. 4	. 1	. ,	. 1	. 1	. 2	. 3	. 4	. 5	6	. 7	. 8	. 9	No. ∆ n _z	Fit. Time (Min.)
200 to 250	-,)	4	1	12	14	32	1						, -		60	1105•0
250 to 300			1	37	64	104	25		1						232	2370.0
300 to 350			•						•						.,.	
Totals			2	49	78	136	26		1						292	15.0
Torwin			•	7,	,,,		20								242	3470.0
Gross Weight 230,000 t						6.		A / 1							Total	
•								Δn _z (g)							No. Δn_Z	Fit. Time
Airspeed (K) 9 8	-, 5	4	3				. 2		. 4	. 5	. 6	. 7	. 8	. 9	(g)	(Min.)
200 to 250				2	7	1		1							11	61.1
250 to 300			1	14	15	34	7								71	632+1
300 to 350																• 2
Totals			1	16	22	35	7	1							82	693.4
Gross Weight: 260,000 to 290,000			Inc	remer	ntal L	oad Fa	actor	Δn _z (g	}						Total	
Airspeed (K) 9 8 7 6	-, 5	4	3	2	1	. 1	. 2	. 3	. 4	. 5	. 6	. 7	. 8	. 9	No. ∆n _z (g)	Flt. Time (Min.)
200 to 250				2		5									7	21.4
250 to 300					1										1	91.3
Totals				2	1	5									8	112.7

TABLE 8 Castle AFB

Distribution of Incremental Guet Load Factors by Equivalent Alrepeed by Gross Weight within Altitude Range: 40,000 to 50,000 feet

Gross Weight: 110,000 to 140,000	Incremental Load Factor Ang (g)	Total No. Ang Flt. Time
Airspeed (K) -, 9 -, 8 -, 7 -, 6 -, 5	4 -, 3 -, 2 -, 1 .1 .2 .3 .4	,5 ,6 ,7 ,8 ,9 (g) (Mih.)
150 to 200		•9
200 to 250		5.3
Totals		5.8
Gross Weight 140,000 to 170,000	Incremental Load Factor Ang (g)	Total
Airspeed (K) -, 9 -, 8 -, 7 -, 6 -, 5 -, 4	-,3 -,2 -,1 ,1 ,2 ,3 ,4	No. An _e Flt. Time .5 ,6 ,7 _8 ,9 {g} {Min.}
150 to 200	1	1 47.2
200 4- 260	9 27 33 17	1 87 738.9
250 to 300		1.2
Totals	9 27 33 16	1 88 787+3
•		
		Total
Gross Weight 170,000 to 200,000	incremental Load Factor Ang (g)	No. Ang Flt. Time
Airspeed (K) -, 9 -, 8 -, 7 -, 6 -, 5 -, 4	-,3 -,2 -,1 ,1 ,2 ,3 4	,5 ,6 ,7 · ,8 ,9 (g) (Min.)
150 to 200		28.0
200 to 250	4 4 8	16 497.5
250 to 300		2.2
Totals	4 4 8	16 527.7
Gross Weight 200,000 to 230,000	Incremental Load Factor Ang (g)	Total
Airspeed (K) -, 9 -, 8 -, 7 -, 6 -, 5 -, 4	-,3 -,2 -,1 ,1 ,2 ,3 ,4	No. Ang Flt. Time .5 .6 .7 .8 .9 (g) (Min.)
200 to 250	2	2 187+0
Totale	2	2 187.0
		•

TABLE 9 Walker AFB

Distribution of Incremental Gust Load Facture by Equivalent Airspeed by Gross Weight within Altitude Rangs. 0 to 1,000 feet

Gross Weight 140,000 to 170,000	Incremental Load Factor Ang (g)		Total No. Ans	Fit. Time
Airspend (K) 9 8 7 6 5	5 -,4 -,3 -,2 -,1 ,3 ,2 1 3 4 ,5	6 7	a ,9 (gl	(Min.)
100 to 150	3 2		•	8.0
150 to 200				. 4
Totals	2 2		•	0.4
Gross Weight 170,000 to 200,000	Incremental Load Factor Ang (g)		Total No. An _B	Fit. Time
Atroposd (K) -, 9 -, 8 7 -, 6 -, 5	-,4 -,3 -,2 -,1 .1 .2 .3 4 .5	6 , 7	8 . 9 (g)	(Min.)
100 to 150	2 1		å	1.6
150 to 200	1 2		3	• 7
Totals	1 2 1 2		•	2.3
Gross Weight 200,000 to 230,000 Airepred (K) 9 8 7 6 5	Incremental Load Factor Ang (g)	6 .7	Total No. Ang 8 .9 {gl	Fit. Time {Min.}
150 to 200				+1
Totals				•1

TABLE 10 Walker AFB

Distribution of Incremental Gust Load Factors by Equivalent Airspeed by Gross Weight within Altitude Range 1,000 to 2,500 feet

	- 1411111 141	111004	cutike	1,000	10 4,:	ouu ie	et					
Gross Weight 140,000 to 170,000	Increm	ental L	oad F	actor	Δn _g (g	1)					Total No An,	Fit Time
Airspred (K) 9 8 7 6 5 4	-, 3 2	1	. 1	. 2	. 3	4	. 5	. 6	, 7	. 8		(Min.)
100 to 150	4	4	10	7	1						26	27.3
150 to 200	33	15	22	34	3						107	27.6
200 to 250	, 1			1							2	• 2
250 to 300	2		1		1						4	•6
Totals	40	19	3.3	42	>						139	55.7
Gross Weight 170,000 to 200,000 Airspeed (K) -, 9 -, 8 -, 7 -, 6 -, 5 -, 4	Increme				-		5	6	7	9	Total No. Δn_z	Flt. Time (Min.)
•	2						.,	. 0	. '	, 0		
100 to 150			4	3	2						20	>•2
150 to 200	2 46	48	68	57	6	1					228	47.2
200 to 250			1								1	• 7
250 to 300												4 • 2
Totals	2 48	57	73	60	8	1					249	57.3
Gross Weight: 200,000 to 230,000 Airspeed (K) 9 8 7 6 5 4							. 5	. 6	. 7	. 8	Total No. a n _z	flt. Time (Min.)
150 to 200												• 4
200 to 250												• 6
Totals												1.0

TABLE 11 Walker AFB

Distribution of Incremental Guet Load Factors by Equivalent Airspead by Gross Waight within Altituda Ranga: 2,500 to 5 000 fact

was and a second and a second and the second		Inc		ntal f	and F	etor	An, la	di.					Total	
Gross Weight: 110,000 to 140,000 Airepeed (K) -, 9 -, 8 -, 7 -, 6 -, 5	-, 4				. 1	, 2	. 3		. 5	. 6	. 7	. 8	No ≜n ₀	Fit. Time (Min.)
100 to 150		•	37	110	161	43		1					354	253.8
150 to 200		2	37	40	100	41	2						222	77.4
200 to 250		1	3	1	•	1							10	1 • 8
250 to 303					1								1	• 2
Totale		7	77	151	266	#5	2	1					549	333+2
Gross Weight.,140,000 to 170,000					oad Fa	ctor	Δn _e (a	1)					Total No. An _a	Fit. Time
Airepeed (K) -, 9 -, 8 7 6 5	4	-, 3	2	1	. 1	. 2	. 3	. 4	, 5	. 6	. 7	. 8	, 9 (g)	(Min.)
100 to 150		•	109	145	2 35	118	y	2	1				675	310.1
150 to 200	1	11	190	189	302	265	1.0	5					981	328.7
200 to 250			19	18	20	19	2						86	13.3
250 to 300	1	2	5	•	3	9	3						26	6.5
300 to 350					1	3							4	• 5
Total•	3	30	323	403	>61	414	31	7	1				1772	••••
Gross Weight: 170,000 to 200,000 Incramental Load Factor Ang (8) Total														
Airepeed (K) -, 9 -, 8 -, 7 -, 6 -, 5	4	3	2	1	. 1	. 2	, 3	. 4	. 5	. 6	. 7	. 8	No. Δn _s	Fit. Time (Min.)
100 to 150		2	29	16	34	13	3						97	72.5
150 to 200		. 5	112	126	170	120	11	1					545	221.5
200 to 250		•	15	12	18	17	2						6.8	11.4
250 to 300		4	21		14	20	3	1					72	5.1
Totale 1		15	177	164	∠36	170	19	2					782	310.5
Gross Weight: 200,000 to 230,000		Inc	ramer	ntal L	oad Fa	ctor	Δn _x (a)					Total	
Airspeed (K) 9 8 7 6 5	4	3	2	1	. 1	. 2	. 3	. 4	. 5	. 6	. 7	. 8	No. Δn_Z , 9 (g)	Fit. Time (Min.)
100 to 150			1	1									4	1.8
150 to 200		5	24	25	33	9	2						99	72.8
200 to 250		7	36	-44	51	31	4						173	50.3
250 to 300		6	41	45	67	58	14	2	1				238	38.0
Totale 1		18	102	115	151	y8	24	2	1				512	162.9
•														
Gross Weight: 230,000 to 260,000							_						Total No. Anz	Flt. Time
Airepeed (K) 9 8 7 6 5	-, 4	3	-, 2	1	. 1	. 2	. 3	. 4	. 5	. 6	. 7	. 8	, 9 (g)	(Min.)
100 to 150														• 8
150 to 200			1	11	4	5							21	6.0
200 to 250		1	1	3	2	7							14	2.0
250 to 300			2	5	4	5							16	2.0
Totale		1	4	19	10	17							51	10.8

TABLE 12 Walker AFB

Distribution of Incremental Gust Load Factors by Equivalent Airspeed by Grosa Waight within Altitude Range: 5,000 to 10,000 feat

Const. Wilder Co.										0 to 1		feat				and the same	
Gross Weight 110,000	to 140,	000			In	creme	rntal l	LOAG P	actor	An _a ((g)					Total No Ang	Fit. Time
Airspeed (K) -, 9 -, 8	7	6	-, 5	• . 4	-, 3	-, 2	1	. 1	. 2	. 3	. 4	, 5	. 6	. 7	, 8	,) lg)	(Min.)
100 to 150					5	34	5.3	25	13							160	229.0
150 to 200					•	63	73	104	44	•	1					304	215+2
200 to 250					5	55	35	50	30	•	3	3				155	51+6
250 to 300		1	1	3	5	21	7	15	24	•	3	1				89	0+1
300 to 350																	•1
Totals		1	1	3	3.1	144	160	223	110	2.2	7	3				703	505.0
Gross Weight 140,000	to 170,	000			Inc	reme	ntal L	oad F	ctor	An, ii	g)					Total	
Airspeed IK) -, 9 -, 8	7	6	5	+.4	-, 3	2	1	. 1	. 2	. 3	4	. 5	. 6	. 1	. 8	No. ≜n _g , 9 (g)	Fit. Time IMin I
100 to 150		, -		3	10	122	135	130	> 6	4						470	179.4
150 to 200			1	3	10	287	301	4 34	229	26	2					1313	508+6
200 to 250				5	30	122	132	100	128	34	6	1	1			637	120.5
250 to 300			1		15	50	48	85	79	30		2	1			323	60.6
300 to 350					5	12	•	15	5	1						42	4.7
Totala			2	15	60	591	650	460	499	95	16	3	2			2705	880.0
Gross Weight 170,000	to 200,	000			Inc	remai	ital L	oad Fa	ctor	Ana (g)					Total No. Ang	tite. To
Airspeed (K) -, 9 -, 8	7	-, 6	-, 5	4	-, 3	2	1	. 1	. 2	. 3	. 4	. 5	. 6	. 7	. 8	. 9 lg)	Flt. Time (Min.)
100 to 150	1				1	7	10	9	4							32	33+1
150 to 200				1	6	61	60	120	68	3						339	233.0
200 to 250					1	29	4.3	51	35	5	3					167	63.3
250 to 300				1	7	61	95	114	85	15	1					399	126+2
300 to 350							1	1	3	1						6	6.4
Totala	1			3	15	176	229	495	195	24	4					943	462.0
Gross Weight: 200,000 to	210 00	0			Incı	emen	tal Lo	ad Fa	ctor	Δn _s (g))					Total	
Airspeed (K) 9 8												. 4	6	7	8		Flt. Time (Min.)
150 to 200	/	-, 0	7	-, 4	1	1					. •	, ,			, -	6	37•4
200 to 250							. ,	18	17	1	1					57	17.8
250 to 300			2		27		190	222	157	31	3	1	1			765	316.9
300 to 350				1		7	15	5	14	5	2					49	8.9
Totals			2	1	32		212		168	43	5	1	1			877	381.0
. 0																	
Gross Weight: 230,000 t	o 260 ,0	00			Inci	emen	tal Lo	ad Fa	ctor	Δn _z (g)					Total No. An-	Flt. Time
Airspeed (K) , 9 , 8	7	6	-,5	-, 4	-, 3	2	1	. 1	. 2	, 3	. 4	. 5	. 6	. 7	. 8	. 9 (g)	(Min.)
150 to 200																	•1
200 to 250							5	1								6	1 • 1
250 to 300						2	13	8	5							28	14.3
Totals						2	18	9	5							34	15.5

TABLE 13 Walker AFB

Distribution of Incremental Gust Load Factors by Equivalent Arrapeed by Gross Weight within Altitude Range: 10,000 to 20,000 feet Incremental Load Factor Ang (g)

Gross Weight 110,000 to 140,000			Inc	C F # F9 - 0	ntal L	oad F	ector	An, (a	ŀ					Total	A to Ton
Airspeed (K) 9 - 8 7 6	٠, 5	- , 4	٠, ١	٠. ٢	1	. 1	. 2	3	4	. 5	6	. 7		Nu Ang (g) (g)	fit Time (Min.)
100 to 150							1							1	0 . v
150 to 200					1	5				1				4	42.3
200 to 250	1		2	12	16	15	15	5	2					6.0	167.3
250 to 300		2	•		5	16	7		2					46	41+3
Totals	1	2	•	20	22	35	23	>	4	1				119	3>4+6
Gross Weight 140,000 to 170, 300			* In-	C F e m e	ntal 1.	oad F	actor	Ang (g	1					Total No Ang	Fli Time
Airspeed (K) 9 6 7 6	٠, 5	4	٠, ١	٠. 2	1	- 1	. 2	3	4	. 5	6	. 7	A	9 (g)	(Min.)
100 to 150				2	1	1								•	1.9
150 to 200			1	13	1+	21	19	2						70	>>+6
200 to 250	2		7	26	34	46	31	٧	2	1				161	4444
250 to 300	1	7	22	64	6 0	103	52	10	•			1		332	557.5
300 to 350		5	•	9		13	•	1	1					45	14.0
350 to 400				3	1	3								7	
Totale 1	3	9	36	114	110	146	100	30	7	1		1		619	844.2
Gross Weight 170,000 to 200,000								An _g (g)						Total No Ang	Elt. Time
Airspeed (K) -, 9 -, 8 -, 7 -, 6	5	-, 4	-, 3	٠.2	1	. 1	. 2	. 3	. 4	. 5	. 6	. 7	. 8	, q (g)	(Min.)
150 to 200				2										2	1 . 3
200 to 250			2	21	26	34	>							8.0	671.5
250 to 300			3	24	49	66	19	3						168	600.5
300 to 350			1	•	4									17	14.0
Totale			6	55	79	108	24	à						275	1300 • ≠
Gross Weight: 200,000 to 230,000			ln c	remei	ntal L	oad Fa	ctor	Δn _z (g)						Total	44.
Airspeed (K) -, 9 -, 8 -, 7 -, 6	5	-, 4	-, 3	2	1	. 1	. 2	. 3	. 4	. 5	. 6	. 7	. 8	No. ∆n _z	Flt. Time (Min.)
150 to 200															1.4
200 to 250		2	1	2	ż	11		1						۷0	241.6
250 to 300		1	13	77	173	210	60	9	3	2				548	11>2.6
300 to 350				1	3	11	4							19	39.7
350 to 400															۲۰۲
Totals		3	14	80	179	232	64	10	3	2				587	1493.4

Incremental Load Factor | Ang (g) Airspeed (K) -, 9 -, 8 -, 7 -, 6 -, 5 -, 4 -, 3 -, 2 -, 1 .1 .2 .3 .4 .5 .6 .7 .8 .9 (g) (Min.)

7 1

41.0

65

1 3 14 18 21

1 3 14 18 21

Gross Weight: 230,000 to 260,000

250 to 300

TABLE 14 Walker AFB

Distribution of Incremental Gust Load Factors by Equivalent Arrapeed by Gross Weight within Altitude Range 20,000 to 30,000 feet

	W 111	iin Altit	ude N.	40 Es	20,00	0 to 3.0	.000	leet						
Gross Weight 110,000 to 140,000	ln	cremen	tal 1.o	ad Fac	tor i	hn _H (g)							Total	Fit. Time
Airepred [K] 9 6 5	4 3	2	1	. 1	. 2	. 3	4	. 5	6	. 7	8	, 9		1Min.1
100 to 150														15.4
150 to 200				1									l.	40.3
200 to 250	1 1	3		3	2			1					19	256+2
250 to 100	3		16	20	14	d	1	1					65	145.7
300 to 350														17.0
Totals	1 *	11	64	24	16	4	1	2					85	475.9
Gross Weight 140,000 to 170,000			ntal 1	and E	25108	An Iss		•					Total	
										,		. 9	No ∆n _d	Fit. Time
Asrepred (K) 9 - 8 7 - 6 5 -	4	32	1	. 1	. 2	3	4	, 5	0	, 7	8	. 4	1 1 2 1	
100 to 140														2•1
150 to 200	1 1			3	1								У	13.9
200 to 250	5		66	35	1.3	>	3	1					112	1071-6
250 to 300	1.1	35	46	4.5	28	6	6						175	1130-7
300 to 350		1	1		2								14	30.3
Totals	1 17	6.7	6.8	8 7	40.40	11	9	1					308	232>+4
Gross Weight 170,000 to 200,000 Airspeed (K) 9 8 7 6 5 100 to 150 150 to 200 200 to 250 3 250 to 300 1 1 1 300 to 350 Totals 1 1 4	1 4		54 79	113	19	, 3 y 10			6	. 7	. 8	. 9	271 344 5	Fit. Time (Min.) 5 31.0 1552.3 1921.3 33.9 3539.0
Gross Weight 200,000 to 230,000	le	cremen	ital Lo	ad Fa	ctor	∆n _z (g)							Total	
Airspeed (K) -, 9 -, 8 -, 7 -, 6 -, 5								. 5	. 6	. 7	. 8		o. Δn _Z (g)	Flt. Time (Min.)
150 to 200				1	-								1	6.8
	1 1	35	68	114	29	4	1	1					254	865.9
			150	256	93	12	2						660	1920.5
300 to 350	6	57	63	91	>0	13	5						285	63.1
			281		172	29	8	1					1200	2856.3
							·	•						
Gross Weight: 230,000 to 260,000	În	cremen	tal Lo	ad Fac	tor 4	۱n_ (g)							Total	
Airspeed (K) 9 8 7 6 5						_		. 5	. 6	. 7	. 8	. 9	o. Δn _g (g)	Flt. Time (Min.)
200 to 250	,	2	4			. ,		. ,			, 0	. /	101	35 • 7
			4										4	
250 to 300			4											59.2
Totals			4										4	94.9

TABLE 15 Walker AFB

Distribution of Incremental Gust Load Factors by Equivalent Airspead by Gross Weight within Altitude Range: 30,000 to 40,000 feat

Gross Weight 110,000 to 140,000	ln	creme	ntal L	oad Fa	ctor	An le	1					Total	
						•						No ≜n _e	Flt. Time
Airepeed (K) 9 8 7 6 5	4 -, 3	2	1	. 1	. 2	. 3	. 4	. 5	. 6	. 7	. 0	, 9 (g)	(Min.)
100 to 150													• 3
150 to 200			5									2	19.7
200 to 250	4	47	6.0	40	25	2						500	440.5
250 to 300			23	32	13							76	153.6
300 to 350		100											1.0
Totale		55	85	92	38	2						278	835.1
Gross Weight 140,000 to 170,000	Lr	creme	ntal L	oad F	ctor	An, (4	()					Total No. Ana	Ela Timo
Airepeed (K) 9 8 7 6 5								. 5	. 6	. 7	. 8		Fit. Time (Min.)
150 to 200	•	1	1									2	55.5
					- 0	17		1				683	5009.7
			105									195	515.0
250 to 300	3	27	63	74	23	4							
300 to 350		1	1	1	5							5	>-3
Total•	19	171	250	307	113	21		1				885	5666.1
Gross Weight: 170,000 to 200,000	ln	creme	ntal L	oad Fa	ctor	An _z ∫g)					Total No. Ana	Flt. Time
Airepeed (K) -, 9 -, 8 -, 7 -, 6 -, 5	4 3	2	1	. 1	. 2	, 3	. 4	. 5	. 6	. 7	. 8		(Min.)
100 to 150													21.4
150 to 200													50.6
		66	171	189	55		1	2				496	5024.4
200 to 250	_					•	•	•					
250 to 300	3	15	10>	100	30							253	1188.1
300 to 350													7 • 7
Total e	11	81	276	289	85	•	1	2				749	6200.2
Gross Weight: 200,000 to 230,000	1r	creme	ntal L	oad F	ctor	Ang (g	1)					Total No. Ang	Fit. Time
Airspeed (K) -, 9 -, 8 -, 7 -, 65	4 3	2	1	. 1	. 2	. 3	. 4	. 5	. 6	. 7	. 8		(Min.)
150 to 200													3.6
200 to 250	2	37	90	129	48	2						308	2472.5
250 to 300	3	28	58		25							215	1760.9
	•				•								1.9
300 to 350					2.5	,						523	4238.9
Totale	5	65	148	230	73	2						,,,	4230.7
Gross Weight: 230,000 to 260,000	ln	creme	ntal L	oad Fa	ctor	Δn _g (g)					Total	Pla Pi
Airepeed (K) 9 8 7 6 5								. 5	. 6	. 7	. 8	No. ∆ n _z	Flt. Time (Min.)
				2	1							3	12.5
200 to 250			8		•							10	13.0
250 to 300				2								13	25.5
Totals			8	4	1							13	2747

TABLE 16 Walker AFB

Distribution of Incremental Gust Load Factors by Equivalent Airspeed by Gross Weight within Altitude Range 40,000 to 50,000 feet

Gross Weight 110,000 to 140,000	increma	rntal Lo	ad Factor	Δn ₀ (g)			Total No Ang	Fit Time
Airspeed (K) -, 9 -, 8 - 7	6 -, 5 -, 4 - 3 -, 2	1	.1 .2	. 3 4	. 5 . 6	, 7 . N	, 9 (g)	(Min.)
150 to 200	1	1					2	16.6
200 to 250		5	9	•			10	140.9
250 to 300°								20.3
Totale	å.	6	9	•			20	170.0

Gross Weight 140,000 to 170,	000	lnc	remer	stal Lo	ad Fa	tor 4	ln _z (g)						,	Total	Flt. Time
Airepred (K) -, 9 - 8 - 7	654	-, 3	-, 2	1	. 1	. 2	3	4	5	6	. 7	8		(g)	(Min.)
150 to 200		3	12	40	36	4								95	190+2
200 to 250			7	50	3.7	3			ı					6.6	1007.4
250 to 300															13.9
Totale		3	19	60	73	7			1					163	1211.5

Gross Weight 170,000 to 200,000	lncren	ental L	oad Fa	ctor	Δn ₀ (g)					;	Total	Flt. Time
Airspeed (K) 9 8 7 6	4 3	2 1	. 1	. 2	. 3	4	. 5	. 6	. 7	8			(Min.)
150 to 200													3.1
200 to 250		12	18	2								35	995.4
250 to 300													3.3
Totals		12	18	3								35	1001.8

Gross Weight. 200,000 to 230,000	Incremental-L	oad Fa	ctor	Δn_z (g)						1	Total No. Anz	Flt. Time
Airspeed (K) -, 9 -, 8 -, 7 -, 6 -, 5 -, 4	-,3 -,2 -,1	. 1	. 2	. 3	. 4	, 5	. 6	. 7	. 8	. 9	(g)	(Min.)
200 to 250	1	1									2	124.8
250 to 300												,•6
Totals	1	1									2	125.4

TABLE 17 Castle AFB

Distribution of Primary Maneuver Load Fectore by Equivalent Airepeed by Gross Weight within Altitude Range: 0 to 1,000 feet

						,	rithia	Altitu	de Ran	ge: 0	to I,	•1 000	e t									
Gross Weight: 110,000 to 1									d Facto	-	-											Fit. Time
Airepred (K) -, 1 0	. 1 2	. 3	. 4	. 5	. 6	. 7	1	1	1.0	1.1	1.1	1.3	1. 4	1.5	1. 6	1. 1	1.4	1.	2.0	2.	1 (0)	(Min.)
100 to 150								1	2	3											4	18+3
150 to 200							1	1	1	5	5										14	13.2
200 to 250																						•1
Totale									•	7	5	2									30	31.0
Gross Watght, 146,000 to 17	70.000							Land														
					4	_			Factor												Total No. n _e	Flt. Time
	. 1 . 2	,		. 5	. •		. 8		1.0					1.5	1. 6	1. 7	1. 8	1. 9	2 0	2 1	(a)	(Min.)
100 to 150						5	14	35		139	41	•	1								100	440.3
150 to 200			1		ı	2	2	5			171	19	1								439	354+4
200 to 250			•		•	•	·	,		•		,									24	10.5
250 to 300							•	•			1	1									•	1+3
300 to 350																						• 1
Total•			1		1	12	69	95		233	220	24	2								657	#00+6
																					Total	
Gross Weight 170,000 to 20									Factor												No. na	Flt, Time
Air+pred (K1 *.1 0	1 . 2	. 3	. 4	. 5	. 6				1.0				1 4	1.5	1. 6	1 7	1 4	1.9	2.0	2.1	181	(Min.)
100 to 150						3	34	34		79	40	74	,								1473	969.7
150 to 200					1	10	113	417					3								•0	
200 to 250						1	•	13		•	14	4										≥0•1
250 to 300							1			1	1	à									4	• 3
Totals					1	1•	151	264		483	512	6 >	3								1513	1663.0
Gross Walght 200,600 to 23	0,000							Load I	actor	n _e (g)											Total No. na	Flt. Time
Airepeed (K)1 0		. 3	. 4	, 5	6	. 7	8	. 9	1.0	1. 1	1. 2	1. 3	1-4	1.5	ŧ	-	1 A	1. 9	2.0	2 1		(Min.)
100 to 150																						0.0
150 to 200						9	19	14		22	4	2									70	35.7
200 to 250						1	2	4		7	1	1									16	11.3
250 to 300							1	1		4		1									7	2.5
300 to 350																						• 1
Totale						10	22	19		33	5	4									93	>6.0
ross Weight 230,000 to 260	. 000						1	oad F	actor i	n. (a)											Total	
arspeed (K) 1 0 , 1	-	. 3	. 4	. 5	. 6	. 7					. 2	1. 3	1 4	1. 5	1,6 1	. 7	1.8	1. 9	2.0		No. n.	Flt. Time (Min.)
100 to 150								. ,										/		1	187	2.2
150 to 200						2	7	8		3	6										34	
200 to 250						1	4	7		3	4										26	8 • 7
250 to 300	~ /=					1				_	1	1									19	7.9
300 to 350												2									6	1 • 4
Totale						4	11	15		9	11	3									53	20.6
ross Weight: 260,000 to 290																					Total	Fit Time
irspeed (K)1 0 .1	. 2	, 3	. 4	. 5 .	6	. 7	. 8	.9	1.0 1	. 1 1	. 2	1.3	. 4	1.5 1	. 6 1.	. 7	. 8	1.9	2.0	2.1	(g)	Flt. Tlme (Min.)
			,	,																		2
100 to 150																						• 3
100 to 150 150 to 200																						• 6

Castle AFB Distribution of Primary Moneuver Load Factors by Equivalent Airspeed by Grose Weight within Aititude Renge:),000 tol2,500 feet

							•	ithin /	Littled	. Reng	(a:), (000 to	2,500	feet									
Gross Walght	: 110,000 to	140,000							Load	Fector		-										No. a.	
Airepred (K)	-, 1 0	.1 .2	, 3	. 4	. 5	, 6	. 7	. 8	, 9	1.0	1, 1	1.2	1. 3	1 4),5	1. 6	1.7	1. 8	1. 9	2.0	2.	1 (8)	(Mtn.)
100 to 150								1	2		3	1										7	25+8
150 to 200							1		9		16	10	1	1	1							• 7	19.7
200 to 250))	2		5	9	5	3	1							27	4+2
250 to 300											1	2	1									•	• 7
Totals							2	10	13		25	22	1	•	2							45	90.4
Gross Weight	140,000 to	170,000							Load	Fector	n. (m)										Total	#14 #4
Airspeed (K)			. 3	4	. 5	. 6	7	. 8		1 0			1.3	1.4	1.5	1. 6	1.7	1. 8	1. 9	2.0	2.1	No. ne	Fit. Time (Min.)
100 to 150								64	69		106	65	5									317	216.3
150 to 200)				9	141	163		437	562	106									1427	670.9
200 to 250						2	•	25	10		24	23	10	2								102	33.6
250 to 300						3	4	12	¥		12	24	21	5	1	2						93	20.1
300 to 350						1	1	2	1		3	4	,		2	1						17	4+3
Totals			1			6	28	244	252		582	678	144	15	3	3						1956	945.2
Gross Weight.	170,000 to	200,000							Load	Fector	n _n (g)										Total	
Airspeed (K)		.1 .2	. 3	. 4	. 5	. 6	. 7	. 8	. 9	1.0	1. 1		1.3	1.4	1.5	1.6	1. 7	1.8	1. 9	2.0	2.1	No. n _e	Flt. Time (Min.)
100 to 150							5	50	96		64	29	3									247	275.7
150 to 200						2	17	314	569		1236	1415	205	10								3768	2126.2
200 to 250					1		2	31	35		3.3	74	36	3	2							217	99.4
250 to 300					2	1	2	15			5	30	9									76	40.3
300 to 350								2	1		1	3	2									9	2.2
Totals					3	3	26	412	707		1339	1551	255	19	2							4317	2543.8
Gross Weight:	200,000 to	230,000							Load :	Factor	n _s ((a)										Total	mt. =/
Airspeed (K)	. 1 0	. 1 2	. 3	. 4	, 5	. 6	. 7		. 9	1.0	1, 1	1. 2	1.3	1.4	1.5	1. 6	1. 7	1. 8	1. 9	2.0	2.1	No. n _a	Flt. Time (Min.)
100 to 150							1					1										2	2.6
150 to 200								5	4		21	7										37	24+1
200 to 250							1	11	19		7	7										45	16.2
250 to 300								9	20		16	13	10	1								69	28.0
300 to 350								5	2				3	1								25	6.5
Totels							2	30	45		52	34	13	2								178	78 • 2
Gross Welght:										ector												Total No. n _e	Flt. Time
Airspeed (K)	1 0	. 1 . 2	. 3	. 4	. 5	. 6	. 7	. 8	. 9	1.0	1. 1	1.2	1.3	1.4	1.5	1.6	1. 7	1.8	1.9	2.0	2.1	(g)	(Min.)
150 to 200								2														2	• 6
200 to 250						1	1	3	6		4	1										16	5.4
250 to 300								8	8		8	7	1									32	13.5
300 to 350							1	1	2			3	3									10	3 - 1
Totals						1	2	14	16		12	11	4									60	22.8
	2/2																						
Gross Weight:										actor												Total No. n _x	Flt. Time
Airspeed (K) -	1 0	. 1 . 2	, 3	. 4	. 5	. 6	. 7	. 8	. 9 3	1.0	1. 1	1.2	1. 3	1, 4	1. 5	1. 6	1. 7	1.8	1. 9	2.0	2.1	(g)	(Min.)
Totels									,													,3	. 6
									,													3	. 8

TABLE 19 Castle AFB

Distribution of Primary Maneuver Load Factors by Equivalent Airspood by Gross Weight within Aitlinds Range: 2,500 to 5,000 feet

						withis	Altitu	de Ras	ge: 2	. 500 1	5,00	0 feet									
Gross Weight \$10,000 to \$40,000							Los	I Facto	er n	(a)										Total	
Aireport (K) , 1 0 , 1 , 2	. 1	: 4	5		٠,٠	7,	8 . 1	1.0	1.	1 1.2	1.1	1.4	1.5	1. 6	1. 1	1.4	1.5	2.0	2.1		(Min.)
100 to 150									1	ı										1	.9
150 to 200																					3 • •
200 to 250							3 3		3	3										12	5.0
250 to 300							1 2			3										5	3 . 3
Totals						•	5		•	5										10	13.4
Gross Weight 140,000 to 170,000							Los	l Facto	r n	(g)										Total	Flt. Time
Airspead (K) 1 0 .1 2	, 3	4	. 1		٠. ١	7.	1	1 0	1.	1 1.2	1 1	1 4	1.5	1.6	1. 7	1.4	1. 1	2.0	2 1	-	(Min.)
100 to 150										1										1	
150 to 200					1		14		17	16	2	1								6.3	50.1
200 to 250					2	. 1			10		3	1								35	20.1
250 to 300				1	5	2	15		10	32	10	3	2	2						110	40.7
300 to 350				1	3					11		3		1	1					•1	12.9
350 to 400				1			1			1			1								1.7
Totale				3		*1			53	67	21	•	3	3	1					240	134.1
																				Total	
Gross Walght 170,000 to 200,000								Factor	-	-										No. na	Fit. Time
Airspeed (K)1 0 .1 .2	. 3	. 4	. 5	. 6	. 7	. 8		1.0	1. 1	1. 2	1. 3	1.4	1.5	1. 6	1.7	1. 0	1. 9	2 0	2 1		(Min.)
100 to 150						•				2										10	19 • 1
150 to 200					•	4.6	126			175	11									551	426+5
200 to 250 250 to 300					3	16	20		32	35	12	1								110	•9•0
				1	3	17	10		36	40	10	7	3							135	•0•3
300 to 350 350 to 400					2	•	3		3	10	3	5	1	1						32	0.9
Totals										2										2	**
Iotais				1	13	89	173		254	204	36	13	•	1						84.0	564.4
Gross Welght. 200,000 to 230,000							Load	Factor	n _e (a)										Total	Flt. Time
Airspeed (K)1 0 .1 .2	. 3	. 4	. 5	, 6	. 7	. 0	. 9	1.0	1.1	1. 2	1. 3	1. 4	1.5	1. 6	1. 7	1.8	1. 9	2.0			(Min.)
150 to 200						ä	1		2.2	7										31	29.8
200 to 250																					2 • 3
250 to 300	1			1	1	12	17		10	29	>	1								85	45.8
300 to 350					3	4	. 4		11	7	3	3							1	35	20+0
Totals	1			1	4	17	22		51	43	•	3							1	151	98.7
Gross Welght: 230,000 to 260,000							Load	Factor	n _s (a)										Total	Pla Time
Airspeed (K) .1 0 ,1 .2	. 3	. 4 .	5	, 6	. 7	. 8	. 9	1. 0	1.1	1.2	1.3	1. 4	1.5	1.6	1. 7	1.8	1.9	2.0		_	Flt. Time (Min.)
200 to 250																					• •
250 to 300					3	3	9		9		2									34	21.5
300 to 350					1	1	4		3	3										12	6.3
Totals					•	4	13		12	11	2									46	28+2
Gross Welght: 260,000 to 290,000							Load	Facto	r · n · 4	(a)										Total	
	2		4	4	-				-		1.1	1.4	1.4	1.4	1.7	1 9	1.0	2 0	, 1	No. n _e	Fit. Time (Min.)
Airspeed (K)1 0 .1 ,2	. 3	. 1	, ,	. 0	. 1	. 8	. 4	1.0	1. 1	4.2	1. 3	1.4	1. 7	1.0	1. /	4. 0	1. 7	2. 0	6.1	1 167	1.3
250 to 300 Totals																					1.3
7.71614																					,

TABLE 20 Castle AFB

Distribution of Primary Manauver Load Factors by Equivalant Airepead by Groze Waight within Aitituda Range: 5,000 to 10,000 feet

Gross Wales	110,000 to 140,	000							Load	Facto	r n.	(4)	-									Total	
			1	4	4		7				_			1.4		1.6	1.7	1.8		> 0		No. na	Fit. Tima (Min.)
100 to 150				•		. •		•			•••	• • •	0. 3				*. *			6.10			• 1
150 to 200												2										2	2.4
200 to 250								1		,												24	11.1
250 to 300											2											11	3.6
300 to 350											•	,										**	
Totals								3			•	2 3	1										2+2
101211								,			•	23										3.7	19.6
Gross Weight	140,000 to 170,0	00							Lord	hactor	$n_A \notin_{\pmb{a}}$	3										lota: No. n _s	Fit. Time
Airspeed (K)	1 0 1	2	, 3	4	5	, 6	. 7		9	1 0	1. 1	1 2	1 3	1.4	1 5	1.6	1.7	1 8	1.9	2 0	2 1		(Min.)
200 to 450								k	1													d	7.0
250 to 300							•	27	15		3.3	21	13	1	1							115	73.2
300 to 350							5	10	7		6	11	12	1	2		1					52	24.9
150 to 400																							. 1
Totals							6	3 &	23		39	32	25	2	3		1					109	105 • ₹
Gross Wsight	170,000 to 200,	000							l.oad	Factor	n ₀ (g	1)										Total No. ng	Flt. Time
	1 0 .1	2	, 3	. 4	. 5	, 6	. 7		9	1 0	1.1	1. 2	1.3	1 4	1.5	1. 6	1. 7	1.8	1. 9	2.0	5 1	(g)	{Min.}
100 to 150																							• 3
150 to 200								2	2		10											1.	24.0
200 to 250								•	5		14	15	3									3.6	51+3
250 to 300						1	3	35	40		50	51	1 4	A								501	130.0
300 to 350								3	3		3		>		1							22	0.7
Totals						1	3	43	50		77	71	26	4	1							275	21>-1
	200,000 to 230,0									Factor												-	Flt. Time
	.1 0 .1	. 2	. 3		. 5	. 6	. 7	. 8	. 9	1.0	1. 1	1.2	1.3	1.4	1.5	1.6	1. 7	1, 8	1.9	2.0	2.1	(g)	{Min.}
200 to 250 250 to 300				1																		1	5.0
300 to 350				1			2	9	29		14	27	5	1								8.6	117.3
							1	4	7		12	15										39	38.6
Totale							3	13	36		20	42	>	1								128	160.9
_	230,000 to 260,0									Factor													Flt. Time
	.1 0 .1	. 2	, 1	4	, 5	. 6	. 7	. 8		1.0	1. 1	1. 2	1. 3	1.4	1.5	1. 6	1.7	1.8	1. 9	2.0	2. 1		(Min.)
200 to 250									1													1	2.3
250 to 300								5	8		10	8	1									32	43.5
300 to 350								1	1		4	6	1									13	14.1
Totals								6	10		14	14	2									46	59.9
==	269,000 to 290,0									Factor												Total	6 11. 6 11.
Airspeed (K)	. 1 0 . 1	. 2	. 3	. 4	. 5	. 6	: 7	. 8	. 9	1.0	1. 1	1.2	1.3	1.4	1.5	1. 6	1. 7	1.8	1.9	2.0	2.1	(g)	Flt. Time (Mln.)
250 to 300									2													2	3.1
Totals									2													2	3.1

TABLE 21 Castle AFB

Distribution of Primary Macauvar Load Factors by Equivalent Airspeed by Gross Weight within Aitstude Range: 10,000 to 20,000 fast

					wi	thin A	littud	Ran	ga: 10,	900 to	20.00	00 faat	1								
Gross Weight 110,000 to 140,000							Load	Facto	()										Total No. o.	Fit. Time
Airepeed (K1 -, 1 0 , 1 , 2	. 3	. •	. 5	. 6	. 7	. 8	, 9	1 0	1. 1	1. 2	1 3	1.4	1.5	1. 6	1. 7	1.0	1. 9	2.0	2 1		(Mtm.)
100 to 130						1			1											4	3+6
150 to 200					2	5	•		16	•	•									41	20.3
200 to 250	1			ı	2	19	31		60	29	12	3			1					139	133+7
250 to 300					1	2	2		3	3		1								14	4.3
300 to 350									1	1										• 1	6.6
Totale	1			1	3	27	3.9		•1	41	14	•			1					216	100.1
Gross Weight 140,000 to 170,000							Loud	Eneto	r n _n (g	.1										Total	
Airspeed (K) 1 0 .1 .2	. 3	. 4	. 1	. 4	. 7		, 9				1.1	1.4	1.4	1.4	1.7	1.6	1.0	2 0	2 1	No. na	Fit. Time {Min.}
100 to 150				•		1						. ,		•	4. 1		8. 7		• •	y	••0
150 to 200					ı	•			,		1									51	7-1
200 to 250					2	23	19		57	29	9	3	ı							143	131.3
250 to 300				1	5	39	43		39	49	13	,	•							192	107.4
300 to 350				2	1	12	9		16	16		1	1								60.4
Totale				3	9	75	60		120	104	29	,	2							431	390.4
Gross Weight: 170,000 to 200,000							المندة ا	Tact-	r n, (-1										Total	
Airspeed (K) 1 0 .1 .2	. 3	4	. 5	. 6	. 7				1.1.		1.3	1.4	1.5	1. 6	1 7	1. 6	1.9	2.0	2 1	No. na	Fit. Tima (Min.)
100 to 150																					• 1
130 to 200					l.	1	23		•	13	2									40	*3 • 4
200 to 250				2	13	56	90		104	79	24	2	2	2						376	457.1
250 to 300		1		2		47	94		99	117	37	13	7	2		1	٠			426	365.0
300 to 350						7	1		11	9	2	2				ı				3 3	21.6
350 to 400																					• 6
Totale		i		4	22	111	408		220	216	67	17	¥	•		2				003	948.2
Gross Walght: 200,000 to 230,000							Load	Facto	r n, (a)										Total	mt. ma
Airspeed (K) 1 0 ,1 .2	. 3	. 4	. 5	. 6	. 7				1. 1		1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	No. n _a	Flt. Tima (Min.)
130 to 200						1	2			1										4	7.9
200 to 230						12	21		11	17	4	2	3							70	82.5
250 to 300					3	26	33		72	61	12		,1		1					237	323.3
300 to 330						•	13		16	20	3									5#	92.6
Totale					3	45	£9		99	99	19	10	4		l.					369	506.3
Gross Weight: 230,000 to 260,000									rn _s (g											Total No. n ₈	Flt. Tima
Airspeed (K)) 0 .1 .2	. 3	. 4	. 3	. 6	. 7	. 8	. 9	1.0	1. 1	1.2	1.3	1.4	1.5	1.6	1. 7	1.8	1.9	2.0	2.1	(g)	(Min.)
200 to 250							ı			ı										2	4.5
250 to 300					l.	2	16		14											43	103.9
300 to 330						7	4		9	7	ı		1							29	28.0
Total•					ı	9	23		23	16	1		ı							74	136.4
																				Total	
Gross Weight: 260,000 to 290,000									n _z (g)		, .				, -						Flt. Tima
Airspeed (K)1 0 ,1 .2	. 3	.4	. 5	. 6	. 7	. 8	. 9	1.0	1. 1	1. 2	1. 3	1. 4	1. 5	1. 0	1. 7	1.6	1. 9	2.0	z. 1	(g)	(Min.)
250 to 300																					7.1
Totale																					7-1

Castle AFB
Distribution of Primery Massuver Load Fectors
by Equivelent Airspeed by Gross Weight
within Altitude Renge. 20,000 to 30,000 feet

																				т	otel	
Gross Watght 110,000 to 140,000								Factor	-	-							_			No	n. n.	Fit. Time
Airspred (K) 1 0 1 .	2 1	4	5	, 6		7	8 . 9	1 0	1.	}	2 1 1) 1 4	4 1 1	. 14	1.3	1.		. 7	8 0	21 1		[Min.]
100 to 150																						• 1
150 to 200			1	1		1.	1.1		5.5	10	1.1	- 1									a 7	***
200 to 250			1	•	•	3]	31		- 0	51	14	7	3	3						Å.	9 8	139+8
250 to 300					1	22	17		45	35	12	3	3	1						11	• 1	¥0 + 1
300 to 150					2		5				. 1										29	22.0
Totale			2	5	19	7 7			121	112	3.0	11	•	4						•	55	291.6
																				-		
Gr weight 140,000 to 170,000							1.oad	Factor	n _a	(g)										No.		Fit. Time
Airspeed (K) - 1 0 1 2	2 3	4	5	, 6	. 1	7 6	9	1 0	1. 1	1 2	1 3	1 4	1.5	1 6	1 7	1.4	1.	9 2	0	1 (4	g l	[Min.]
150 to 200							6		¥	7	2	1]	3	~1 • ¥
200 to 250	•	1		j	1.6	104	1 * *	d	15	150	0.1	Α	6	2	2					14	3	802+2
250 to 100			1	1	11	1+6	251		42	200	14	16	У	3	1	å			1	121	1	1317.0
300 to 350							16		43.	3 6	7		1	1						1.1	6	103.4
Totale		1	l.	4	21	268	+17	1	24	*61	144	10	1 6		3	1		- 1		210	9 .	232407
Gross Weight 170,000 to 200,000							Luad	Factor	0.1	(a)											tal	
	3	4	5	6	. 7	. 6		1 0	_	_	1.3	1.4	1.5	1.6	1.7	1.6	1.	9 2	0 2	No.		Flt, Time (Min.)
• • • • • • • • • • • • • • • • • • • •	,	•	,	ı	1	j	1		1		1	, ,	,									0.0
.150 to 200				6	1.0		145		425	230	7.0	42	6	2							32	048.5
200 to 250					17		417		166	211	95	21	0	1						11	19	1300.6
250 to 300					17						,	,								10		¥1.5
300 to 350				1		16	15		28	35	-		1	,						20 6		2133.0
Totels					36	246	3/8		p 2 0	215	177	4.8	15	,						801		413310
Gross Weight 200,000 to 230,000							Load	Factor	n _E ((g)											ng.	Flt. Time
Airspeed (K)1 0 .1 .2	3	4	, 5	. 6	. 7	. 8	. 9	1.0	1. 1	1.2	1 3	1.4	1.5	1.6	1. 7	1.8	1.	9 2	. 0 1	1. 1 - fa	(1)	(Min.)
150 to 200																						• •
200 to 250					1	10	35		3 /	28	12	2	1							14	26	223.4
290 to 300					5	58	173	1	161	193	6.5	∠0	2							6 /	19 1	1040.>
300 to 350				1	1	26	3.5		41	34	¥	5	2							15	8	140.0
350 to 400					1							1									2	• 3
Totels				1	8	94	241		241	255	86	28	>							76	5 1	409.6
G W 12 220 000 12 140 000							Load 1	Factor	n /-	-1										Tot	al	
Gross Weight: 230,000 to 260,000				,					-													Fit. Time
Air*peed (K) .1 0 .1 .2	. 3	. 4	. >	. 6	, 7								1.5	1.0	1. 1	1. 5	1. 9	٤.	0 2			(Min.)
200 to 250						6	1		14	1	3	1								3		42.4
290 to 300					1	21	34		49	16	4									13		310.9
300 to 350				1	1	3	10		15	6	2)	ò	41.4
Totele				ı	2	36	51	i	18	49	y	1								30	1	454.7
Gross Weight: 260,000 to 290,000							Load F	actor n	z (g)										Tota		
Airspeed (K) .1 0 .1 .2	. 3	. 4	. 5	. 6	. 7	. 8	. 9	1.0 1	. 1	1.2	1.3	1.4	1.5	1.6	1.7	1. 8	1.9	2.0	2.			lt, Time (Min.)
250 to 300							1													1		15+2
Totels							1													1		15.2
J = 1 = 1 =																						

TABLE 23 Castle AFB

Distribution of Primary Maneuver Load Factors by Equivalent Airspeed by Gross Waight within Altitude Range: 30,000 to 40,000 feet

Gross Weight	110,000	to 140	,000							Load	Facto	or n _a	(a)										Total No. na	Fit. Time
Airepeed (K)	1 0		1 8	. 3	. 4	, 5	. 6	. 1	. 8	, 9	1 0	1.1	1.2	-1,3	1.4	1.5	1.6	1. 7	1.8	1. 9	2.0	2	(a)	(Min.)
150 to 200				1		ı	4	,	29	47		+4	44	22	•	2							199	174.9
200 to 250					1	3	3	22	112	171		286	176	73	24	•	1	1	2					1102+7
250 to 300					1		4	15	34	52		119	70	20	9	•	2						3 # 2	+40.5
Totals				1	2	4	y	42	175	410		**1	440	11>	37	1+	3	1	d				1942	1648 + 44
Gross Wetght	140,000	0 to 1	70,000							Load	Facto	or n _a	(g)										Total	
Airopred (K)			1 7	1	4	5	6	1		9	1 0	1. 1	1 2	1 3	1.4	1.5	1.6	1. 7	1.6	1.9	2.0	2	No. n _a	.Flt, Time (Min.)
100 to 150									1			3	2											1.6
150 to 200							3	1		12		10	10	2	1								>>	42+0
200 to 250						3	10	62	296	>57		627	517	197	>1	10	•	2	2				2340	1361.4
250 to 300		1	,		2	1	7	24	150	271		382	300	113	+2	13	2	1	1				1316	1000.1
300 to 350		1	1		•	1		1	1	2				4			1			1			43	17.0
350 to 400								•	•	-														. 7
Totale							10		404	044		1036	037	316	٧4	23	9	3	3	1			3740	5071+6
			ı		2	,	20	••	***														Total	
Gross Weight												r na	•										No. na	Fit. Time
Airepeed (K)	- 1 0		1 5	. 3	. 4	- 5	= . 6	. 7	. 8	. 9	1.0	1. 1	1. 2	1 3	1. 4	1.5	1.6	1. 7	1.0	1. 9	2.0	2 1	{ a }	(Min.)
150 to 200									٧	•		17	13	1		1							• /	0 • 5
200 to 250							>	24	153	470		376	234	74	4.0	•	4						1100	2307+1
250 to 100	1						2	7	9.7	184		275	145	44	40	•	1	1	1				034	1042.0
300 to 350									3	3		4	3	3		1	1						10	12.a
Totals	1						,	31	262	463		672	**2	1+7	36	10	6,	1	1				2014	4252.0
Gross Welght	200,600	to 230	000							Load	Fecto	r n _e (g)										Total No. na	Flt. Time
Airspeed (K)	. 1 0	. 1	. 2	. 3	. 4	. 5	. 6	. 7	. 6	. 9	1.0	1.1	1.2	1. 3	1.4	1.5	1.6	1.7	1. 8	1. 9	2.0	2.1		(Min.)
200 to 250							1	6	¥0	165		176	125	48	•	5							600	110>+0
250 to 300					1	1	3	15	119	191		100	179	47	10	•		1					871	2370.0
300 to 350					1				4	4		•	2	1				1					17	12.0
Totale					2	1	•	21	213	36 0		480	306	76	14	¥		2					1488	3970.0
Gross Welght.	230,000	to 260	0.000							Load	Facto	rn _e (g)										Total	
Airspeed (K)	1 0			. 3	. 4	. 5	. 6	. 7	. 8		1.0		1.2	1.3	1.4	1. 5	1.6	1. 7	1, 8	1. 9	2.0	2.1		Flt, Tlme (Min.)
200 to 250									5	10		6	7	2									30	61.1
250 to 300								1	25	46		46	44	6									168	632.1
300 to 350												1	2										3	•2
Totals								1	3.0	56		53	53	a									201	693.4
101215																								7 ,7, 1 ,1
Gross Weight: 2	60,000 ta	290.	000							Load I	Factor	n _z (g	1)										Total	
Airspeed (K) -				. 3	. 4	. 5	. 6	. 7						1. 3	1.4	1. 5	1. 6	1. 7	1.8	1.0	2 ^	2 .	NT 14	Flt. Time
200 to 250									. •	. ,		1			2.4		0		4.0	1. 9	2.0	2.1	(g) 1	(Min.) 21•4
250 to 300										1		4											5	91.3
Totals										1		5												112.7

TABLE 24 Castle AFB

Distribution of Primery Maneuver Load Factors by Equivalent Alrepeed by Groze Weight within Altitude Range: 40,000 to 50,000 lest

																			Total	
Gross Weight, 110,000 to 140,000								r na	_										No. na	Flt. Time
Airepeed (K)1 0 ,1 .2 .3	4	- 5	. 6	, 7		, 9	1 0	1. 1	1. 2	1 3	1.4	1.5	1.6	1. 7	1.4	1.	9 2	0 2	1 igi	(Min.)
150 to 200																				.5
200 to 250																				5 . 3
Totale																				5.0
Grass Weight 140,000 to 170,000						Load	Fecto	r n _e (gl										Total	Pla Barra
Aireport (K) 1 0 1 .2 .3	4	5	. 6	. 7	8	9	1 0	1.1	1.2	1.1	1.4	1.4	1 6	1 7	1.8	1	2 (2	710. n _a	Fit Time (Min.)
150 to 200					2				2										14	47.2
200 to 250			1	7	19	65		5.3	49	14	1	2							211	730.9
250 to 300						1				1	•								2	1.2
Totale			1	7	21	70		6.7	>1		1	2							225	707.3
			•	,	•••			,,			•	•							447	/0/43
Gross Weight: \$70,000 to 200,000						Load	Fector	n _a (i	-1										Tota!	
Airepeed (K) - 1 0 .1 .2 .3			4	2					_	1.1	1.4	1.6	1.6	1.7	1.8	1.0	2.0	,		Fit, Time (Min.)
	. •	. ,	. •	. 1	, 0	1		3			• •				,, ,	4. 7				20.0
150 to 200			1	1	17	11		36	12	2	1								81	
200 to 250			•	•	• •	• •		,,,		•	•								*1	497.5
250 to 300									1.3	,	1									2+2
Totale			ı	1	17	12		39	12	2	1								25	527.7
Grove Weight 200,000 to 230,000								n _z (g)										Total No. n _e	Fit. Time
Air*peed (K) .1 0 .1 .2 .3	4	. 5	. 6	. 7			1 0			1 3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	(g)	(Min.)
200 to 250					3	3		15	ė										24	187.0
Total					ė	ذ		15	3										24	187.0

TABLE 25 Walker AFB

Distribution of Primary Maneuver Load Factors by Equivalent Alrepeed by Gross Weight within Altitude Range: 0 to 1,000 feet

Gross Weight: 140,000 to 170,000					Load F	actor i	(g)									Total	
Alrepood (K) .1 .2 .3 .	4 3	. 6	. 7	. 0	. 9 1	0 1.	1 1.2	1.3	1.4	1. 5	1, 6	1. 7	1.8	1. 9	2.0		(Min.)
100 to 150			1	2 .		1	1	1								•	8.0
150 to 200					1		3									4	• •
Totale			1	2	1	1	•	1								10	
Gross Weight: 170,000 to 200,000					Load F	actor m	e (g)									Total No. na	Fit. Time
Alrepend (K) .1 .2 .3 .	4 .5	, 6	. 7	. 8	. 9 1.	0 1.1	1.2	1. 3	1. 4	1. 5	1, 6	1. 7	1. 8	1. 9	2.0	(g)	(Min.)
100 to 150						1	1									2	1.0
150 to 200						1										1	.7
Totale						2	1									3	2.3
Gross Weight: 200,000 to 230,000					Load Fa	ctor n _a	(g)									Total	Fit, Time
Alrepeed (K) .1 .2 .3 .4	. 5	. 6	. 7	. 8	. 9 1. 0	1.1	1. 2	1. 3	1.4	1. 5	1. 6	1. 7	1.8	1. 9	2.0	(g)	(Min.)
150 to 200					1											1	• 1
Totals					1											1	•1
						BLE	_										
					Walk												
			by	Equive	of Prima Llant Airi titude Ra	pend by	Gros	. Welg	ht	•							
Gross Weight: 140,000 to 170,000					Load F	ctor n	(g)									Total No. na	Flt, Tlme
Airspeed (K) .1 .2 .3 .4	4 . 5	. 6	. 7	. 8	, 9 1.	0 1.1	1. 2	1. 3	1.4	1.5	1. 6	1.7	1, 8	1.9	2.0	(g)	(Min.)
100 to 150				2	1		9	2								22	27•3
150 to 200				9		12	17	13	2							61	27.6
200 to 250																	•2
250 to 300						1	1									2	• 6
Total*				11	9	21	27	15	2							85	55.7
Gross Weight: 170,000 to 200,000					Load Fa											Total No. na	Flt. Tlme
Airspeed (K) .1 .2 .3 .4	. 5	6	. 7	. 8	. 9 1.	0 1.1	1. 2	1.3	1.4	1.5	1.6	1. 7	1.8	1. 9	2.0	(g)	(Min.)
100 to 150					1	3	3									7	5.2
150 to 200			1	15	13	35		16								135	47.2
200 to 250					1		1	1								3	• 7
250 to 300							1		1							2	4.2
Totals			1	15	15	38	60	17	1							147	57.3
ross Weight: 200,000 to 230,000					Load Fa											Total No. n _z	Flt. Time
Airspeed (K) .1 .2 .3 .4	. 5	. 6	. 7	. 8	. 9 1. 0	1.1	1.2	1. 3	1.4	1.5	1. 6	1. 7	1.8	1. 9	2.0		(Min.)
150 to 200					1		1									2	• 4
200 to 250					1		1									2	• 6

TABLE 27 Walker AFB

Distribution of Primary Maneuver Load Factors by Equivalent Airapeed by Gross Weight within Altitude Range: 2,500 to 5,000 (eet

						1.0	ad Fac	tor n	. (#1									Total	
	t 110,000 to 140,000										1.4	1.5	1 6	1.7	1.1	1.9	2 (No. n _a	Fit. Time (Min.)
Atrapeed (K	1 , 1 , 2 , 3 , 4	. 5	. 6				1 0			21	1.4			*. •	• • •			393	253.8
100 to 150			1			91		117	103	17	1							205	17.4
150 to 200				5				1			•							5	1.0
200 to 250					1				•									• 3	• 6
250 to 300					11			178	105	42	2							606	311.2
Totals			1	11	,,,	111		1/6	104	72									
Gross Weight	140,000 to 170,000					Loa	d Fact	tor n	(g)									Total No. ng	Flt. Time
Airspeed [K]	.1 .2 .3 4	. 5	. 6	. 7	8	9	1 0	1.1	1.2	1 3	1 4	1 5	1.6	1. 7	1.8	1, 9	2 0		(Min.)
100 to 150			2	11	91	103		194	127	25	2	1						556	310.1
150 to 200			l	¥	AT	9.1		171	105	7 0	4.1		1					754	320.7
200 to 250				1	5	•		٧	14	1	1							5 66	12•2
250 to 300				1		5		6	7	d	1	1						26	6.5
300 to 350									1									å.	• 5
Totals			3	22	184	400		380	454	110	15	2	1					1379	666.0
Gross Weight	170,000 to 200,000					Load	Facto	r ng	(g)								,	Total No. ng	Flt, Time
Airspeed (K)	-	. 5	. 6	. 7	. 8	. 9	1.0	1. 1	1.2	1.3	1.4	1.5	1. 6	1. 7	1.8	1. 9		(g)	(Min.)
100 to 150.				2	28	34		72	> 0	12								203	12.5
150 to 200			2	9	61	41		156	215	66	49	1						561	221.5
200 to 250			2	3	6	3		1	8	5	3							37	11.4
250 to 300				1	4	2		4	13	6	4	46						3 8	5 • 1
Totals			4	15	99	91		239	286	87	11	5						839	310.>
Gross Welght	: 200,000 to 230,000					Loa	d Fact	or n _z	(g)									Total	
Airspeed (K)	.1 .2 .3 .4	. 5	. 6	. 7	. 8	. 9	1.0	1. 1	1. 2	1. 3	1.4	1.5	1.6	1. 7	1. 8	1. 9	2.0	No. nz	Flt. Time (Min.)
100 to 150				1		1		2	ż									, 7	1.6
150 to 200			2	27	74	36		68	65	3								215	72.8
200 to 250				2	33	34		36	27	2	1							135	50.3
250 to 300				3	18	15		28	52	27	5	1						149	38.0
Totals.			2	33	125	86		134	147	32	6	1						566	162.9
Gross Weight:	230,000 to 260,000					Load	d Fact	or n _z	(g)									Total	Flt. Time
Airspeed (K)	.1 .2 .3 .4	. 5	. 6	. 7	. 8	. 9	1.0	1. 1	1.2	1. 3	1.4	1.5	1, 6	1.7	1.8	1. 9	2.0	(g)	(Min.)
100 to 150																			• 8
150 to 200			- 1	2	5			1	5	1								15	6.0
200 to 250						7		3	4									14	2.0
250 to 300					1	1		4	1									7	2.0
Totals			1	2	6	8		8	10	1								36	10.8

TABLE 28 Walker AFB

Distribution of Primary Maneuver Load Factors by Equivalent Alrapsed by Gross Weight within Altitude Range. 5,000 to 10,000 feet

							Lou	d Factor n	(a)								Total	
	: 110,000 to 1:		. 5	. 6	. 7	. 8				1.3	1.141	1.5	1. 6	1 7	1. 8	1. 9	No. n _a	Fit. Time (Min.)
	. 1 . 6	, ,	. ,		10	95	126	136	95	17	2	•••		-			461	229.0
100 to 150			1		14	86	11	161	108	30	,						480	215.2
200 to 250			•		1	12	10	37	35	10	5	3	1				120	51.0
250 to 100					,	1	1	3	5	,,	3		1				20	6.1
300 to 350					Í	·	•	•	-		-						••	•1
			1		28	194	214	117	243	••	13	3	2				1101	50>•0
Totals						,,,,	*114	,,,	,	•••	.,	,	•				1101	303.0
a with							Loa	d Factor n _a	(a)								Total	
Gross Weight	.1 .2 .			. 6	. 7	. 8			-	1.3	114	15	1.6	1.7	1.8	1 9	No. n _a	Flt, Ttme (Min.)
Airspeed (K)		, ,	. ,	. •		97	76		>9	. ,	1		0		8.0	8. 7	363	
100 to 150		1	1	2	10	147	lev	243	316	#2	5	ı					983	179.4
150 to 200			,	3		31	32	56	74	35	9		. 2	ı			255	500.0
200 to 250														•				120.5
250 to 300			1	2	9	18	16	24	49	32	•	6	3				100	60.6
300 to 350			1	1	2	2	3	•	1	4	2		2	1			23	4.7
Totals		1	3	8	45	295	496	~36	449	102	25	11	7	2			1792	880.0
Gross Weight Airspeed (K) 100 to 150 150 to 200 200 to 250 250 to 300 300 to 350 Totals	170,000 to a	-	. 5	. 6	. 7	8 20 82 23 42 1		ad Factor in 1 0 1.1 30 122 21 58 5	-	1. 3 2 48 25 28 2	1 4 1 6 6 13	2 6	1.6	1.7	1.8	1. 9	Total No. n _a 2.0 (8) 98 524 160 270 9	Flt, Time (Min.) 33.1 233.0 63.3 126.2 6.4
Gross Welght:	200 000 40 2	30 000					Loa	d Factor n _e	(g)								Total	
Airspeed (K)			. 5	. 6	. 7	. 8		1.0 1.1		1.3	1.4	1.5	1. 6	1	9	1. 9	No. n _e 2.0 (g)	Flt. Time (Min.)
150 to 200				1	2	13	21	27	9	2							75	37.4
200 to 250					2	8	8	15	9	1							43	17.8
250 to 300,				7	21	94	100	150		44	6	3					584	310.9
300 to 350			1			1	1	6	6	5	2	2	٠				24	8.9
Totals			1	8	25	116		198		52	8	5					726	381.0
Iotale			•	·	••		. 50	.,,	,	~	Ů						,,,,	30100
Gross Weight:	230,000 to 260	0,000					Load	Factor nz	(g)								Total	
Airspeed (K)	.1 .2 .3	3 , 4	. 5	. 6	. 7	. 8	. 9	1.0 1.1	12	1.3	1.4	1. 5	1. 6	1. 7	1.8	1. 9	No. n _z 2.0 (g)	Flt. Time (Min.)
150 to 200																		• 1
200 to 250					2	2	1	3									ь	1 • 1
250 to 300						5	5	8	5	1							24	14.3
Totals					2	7	6	11	5	1							32	15.5

TABLE 29 Walker AFB

Distribution of Primary Mansuver Load Factors by Equivalent Airepeed by Gross Weight within Airitude Range: 10,000 to 20,000 feet

e Wai-ta	110.0	00.10	140.0	00					Load	f Fact	or ng	(g)									Total	mts ms
Gross Weight Airspeed (K)	110,0			. 4	, 5	. 6	. 7	. 8	9	1 0	1. 1	1 2	1 3	1 4	1.5	1.6	1. 7	1. 8	1. 9	2 0	No. n _e	Fit. Ttme (Min.)
	•	•		. •				2	11			7									2 4	. 8.9
100 to 150						2	2	2	12		13	22	d								74	.42.3
200 to 250				2		3	11	41	52		69	44.44	15	7	3	ı					248	107.3
240 to 100						1	2	9	7		25	20	•	4	1						75	41.3
Totals				2		6	15	73	0 2		111	¥3	2 3	11	46	1					421	259.0
, 0.0				•																		
									la	A F.	tor n	(a)									Total	
Gross Weight	140,																				Total No. ne	Flt, Time
Airspeed (Kl	1	2	, 3	4	. 5	. 6	. 7	6	. 9	1 0	1. 1	1.2	1 3	1.4	יו	1.6	1. 7	1. 8	1 9	2	0 (g)	(Min.)
100 to 150					1		1	1	1												4	1.9
150 to 200							1	12	17		16	2 1	46	1							72	55.6
200 to 250			1	1	2	1	16	0.3	71		91	103	42	5	2	3		1			422	429.4
250 to 300				1	2	2	22	6.0	6.6		131	112	41	41	•	3	1				460	337.5
300 to 350						3	2	4	2		12	5	•	2		1			1		3 8	19.0
350 to 400													1	1		1					3	• 0
Totals			1	2	5	6	42	168	159		250	241	94	30	10	8	1	1	1		1019	844.2
Gross Weight Airspeed (K) 150 to 200 200 to 250 250 to 300 300 to 350 Totals					. 5	. 6	. 7	.8 52 63 3			1. 1 1. 1 126 138 13		1.3 22 49 3 74	1 4	3	2 2	1. 7	1.8	1.9	2.0	Total No. na (g) 3 373 512 .31 919	Fit. Time (Min.) 1.3 671.5 000.5 19.6
										ır.		1-1									Tetal	
Gross Weight											tor n						. ~					Flt. Time
Airspeed (K)	. 1	. 2	. 3	. 4	. 5	, 6	. 7			1.0			1.3	1. 4	1.5	1.6	1.7	1.8	1. 9	2.	0 (g)	(Min.)
150 to 200								2	1		4	4									11	1 • 4
200 to 250						1	5	33	25		69	43	10	1							187	297.6
250 to 300						3	19	149	188		260	169	60	13	2	1	1				865	1152+6
300 to 350							5	10	11		24	9	2	1							62	39.7
350 to 400								1			2	1					1				5	2+1
Totals						4	29	195	225		159	226	72	15	2	1	2				1130	1493.4
Gross Weigh	t: 230	,000 (to 260	,000					L	oad F	actor	n _z (g)									Tota	
Airspeed (K)	. 1	. 2	. 3	. 4	, 5	. 6		7 . 8	3 .	9 1.	0 1.	1 1. 7	2 1.3	1.4	1.5	1. 6	1.	7 1.	8 1.	9 2	No. n	z Flt. Time (Min.)
250 to 300								2	2 4	4	3	3		1	l						10	41.0
Totals								2	. 4	4	3)		1	1						10	41.0

Walker AFB
Distribution of Primary Maneuver Load Factors
by Equivalent Airspeed by Gross Weight
within Altitude Range: 20,000 to 30,000 feet

300 to 350 Totals 2 4 15 37 131 135 203 166 66 25 12 4 7 2 Canal Factor no (g)					Total No. n	
150 to 200	1.9	1.8	1.8	1.9		(Min.)
20 to 250					36	1>.9
250 to 500 2 2 12 40 31 81 66 26 15 7 2 4 1 1 300 to 350 3 3 3 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					105	40+3
30 to 350 Totals 2 4 15 37 131 135 203 166 66 45 12 4 7 2 Cross Weight: 140,000 to 170,000					370	256+2
Totals 2 4 15 37 131 135 203 188 88 45 12 4 7 2 Gross Weight: 140,000 to 170,000 Airspeed (K) . 1 . 2 . 3 . 4 . 5 . 6 . 7 . 8 . 9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.6 1.7 1.6 1.0 10 10 10 10 200 1 1 1 1 1 1 1 1 1 2 20 31 2 20 312 250 123 35 14 9 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1	1	1	1	292	145.7
Cross Weight 140,000 to 170,000 Load Factor n ₀ (g)	1	1	1		13	17.0
Airapeed (K) . 1 . 2 . 3 . 4 . 5 . 6 . 7 . 8 . 9 1. 0 1. 1 1. 2 1. 3 1. 4 1. 5 1. 6 1. 7 1. 6 1.	2 1	2	2	1	2 #14	475.9
Airspeed (K) .1 .2 .3 .4 .5 .6 .7 .8 .9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.4 1.0 1.5 1.6 1.7 1.4 1.5 1.6 1.7 1.8 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5					Tota	
150 to 200	£ 1, 9	1. 6	1.4	1. 9	No. n. 2.0 (g)	Flt. Tin (Min.)
200 to 250					12	2 • 7
250 to 300					93	73.9
300 to 350 Totals 1 1 1 1 7 75 91 383 640 679 522 250 65 30 16 7 2 Gross Weight: 170,000 to 200,000 Load Factor ng (g) Airspeed (K) .1 .2 .3 .4 .5 .6 .7 .8 .9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.6 1.0 to 150 1	1 2	1	1	2	2 1250	1071.8
Totals 1 1 1 1 7 75 91 383 640 679 522 250 65 30 16 7 2 Gross Weight: 170,000 to 200,000 Airspeed (K) .1 .2 .3 .4 .5 .6 .7 .8 .9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 150 to 200 200 3 6 27 210 240 351 225 72 21 9 2 250 to 300 1 3 24 155 228 513 354 134 46 18 5 3 1 300 to 350 7 5 12 6 2 3 2 2 3 1 3 1 3 1 3 1 3 2 2 3 3 3 3 3	ı .	1	1		1116	1138.7
Gross Weight: 170,000 to 200,000 Airspeed (K) .1 .2 .3 .4 .5 .6 .7 .8 .9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 100 to 150 1					1 52	38.3
Airspeed (K) .1 .2 .3 .4 .5 .6 .7 .8 .9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 100 to 150	2 2	2	2	2	3 2525	2325.4
Cross Weight: 200,000 to 230,000 Airspeed (K) .1 .2 .3 .4 .5 .6 .7 .8 .9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 150 to 200 5 1 3 2 200 to 250 1 2 9 70 137 197 124 57 6 4 * 250 to 300 4 14 136 186 385 246 94 18 5 3 300 to 350 3 6 16 12 12 6 9 4 1	1	1.8	1	1.9	Total No. n ₍ 2.0 (g) 29 1166 1485	
Airepeed (K) .1 .2 .3 .4 .5 .6 .7 .8 .9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 150 to 200 5 1 3 2 200 to 250 1 2 9 70 137 197 124 57 6 4 2 250 to 300 4 14 136 186 385 246 94 18 5 3 300 to 350 3 6 16 12 12 6 9 4 1	!	2	2		2725	3539.0
150 to 200 200 to 250 1 2 9 70 137 197 124 57 6 4 * 250 to 300 4 14 136 186 385 246 94 18 5 3 300 to 350 3 6 16 12 12 6 9 4 1					Total	Flt. Tim
200 to 250 1 2 9 70 137 197 124 57 6 4 ° 250 to 300 4 14 136 186 385 246 94 18 5 3 300 to 350 3 6 16 12 12 6 9 4 1	1.9	1.8	1.8	1.9	2.0 (g)	(Min.)
250 to 300 4 14 136 186 385 246 94 18 5 3 300 to 350 3 6 16 12 12 6 9 4 1					11	6.8
300 to 350 3 6 16 12 12 6 9 4 1					607	865.9
					1091	1920-5
Totals 1 6 26 212 344 595 385 159 33 13 3 1	1			1	70	63.1
	1			1	1779	2856.3
Gross Weight: 230,000 to 260,000 Load Factor n ₂ (g)					Total No. ng	Flt. Tin
Airspeed (K) .1 .2 .3 .4 .5 .6 .7 .8 .9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 200 to 250 4 5 8 6 4 1	1.9	1.8	1.6	1. 9		(Min.)
					28	35.7
250 to 300					16	59.2

Walker AFB

Distribution of Primary Maneuver Load Factors by Equivalent Airspead by Gross Waight within Altitude Range: 30,000 to 40,000 feet

									1.0	and the	aton m	(a)									Total	
Gross Weight		-									ctor n										No. na	
Atrapeed (K)	. 1	. 2	, 3	. 4	, 5	. 6		. 8	, 9	1	0 1, 1	1.2	1 3	1.4	1.5	1.6	1. 7	1.8	1. 9	2	0 (g1	(Min.)
100 to 150							1														1	• 3
150 to 200							1	1	4		1	1			1						1	19.7
200 to 250				1	1	2	12	46	30		69	3.5	20	3	3		1				555	000.5
250 to 300							4	15	9		26	1.0	3	1	1						17	1>3.0
300 to 350																						1 • 0
Totals				1	1	2	10	64	41		96	>1	53	4	5		1				307	03>•1
Gross Welght	140,	000 to	170,	000					1.04	id Fa	ctor n _i	(g)									Total No. na	Flt. Time
Airspeed (K)	1	. 2	. 3	. 4	5	. 6	. 7	8	9	1 0	1.1	1 2	1 3	1 4	1.5	1. 6	1 7	1.8	1.9	2 0	(g)	(Min.)
150 to 206			1	2	2	1	6	13	12		19		>	2							71	>>•>
200 to 250				2	3	9	54	232	247		455	268	97	3 3	di	7	1				1416	5009.7
250 to 300						1	13	48	86		131	100	>1	11	4	1					446	>1>+6
300 to 350								3	4		3	>	3		2						20	5+3
Totals			1	4	5	11	73	346	347		608	301	156	. 46	14		1				1953	5666.1
Gross Weight:	170,	000 tc	200,	000							tor n _a										Total No. ng	Fit. Time
Arspeed (K)	. 1	. 2	, 3	. 4	, 5	. 6	. 7	. 8	. 9	1.0	1. 1	1.2	1.3	1.4	1.5	1. 6	1.7	1.8	1. 9	2.0	(g)	(Min.)
100 to 150																						21.4
150 to 200							1	1	7		2	1	1	1							14	38.6
200 to 250	1				46	3	47	189	421		513	292	54	42	4	2	2	1			1555	>024.4
250 to 300					1	2	11	35	89		166	126	3.7	11	3	5		1	1	1	486	1188.1
300 to 350												1									1	7.7
Totals	1				5	>	59	224	517		681	420	92	34	7	4	2	2	1	1	2056	6280.4
Gross Welght:	200.	000 to	230,	000					Los	d Fac	tor ng	(g)									Total	Pla Missa
Airspeed (K)	. 1	. 2	, 3	. 4	. 5	. 6	. 7	. 8	. 9	1.0	1. 1	1. 2	1.3	1.4	1. 5	1.6	1. 7	1.8	1.9	2.0	No. n _a (g)	Flt. Time (Min.)
150 to 200								3	3		2	1									9	3.6
200 to 250		1	1			3	13	100	209		275	139	39	7	4						791	2472.5
250 to 300						3	9	75	101		222	106	33	8	2	1					560	1760.9
300 to 350																						1.9
Totals		1	1			6	22	178	313.		499	246	72	15	6	1					1360	4238.9
Gross Weight:	230	,000 1	260,	000					Loa	d Fa	ctor n	(g)									Total	
Airspeed (K)	. 1	. 2	. 3	. 4	. 5	. 6	. 7	. 8	. 9	1.0	1. 1	1.2	1.3	1.4	1.5	1.6	1. 7	1.8	1.9	2.0	No. n _a	Flt, Time (Min.)
200 to 250									3		3								,	2.0	6	12.5
250 to 300									2		1										3	13.0
Totals									5		4										9	25.5

TABLE 32 Walker AFB

Distribution of Primery Mansuvar Load Factors by Equivalent Airspeed by Gross Weight within Airitude Range: 40,000 to 50,000 feet

Gross Weight	110,0	00 to	140,0	00					Lo	ad Fee	tor n	a (g)									Total	
Airspeed (K)	1	. 2	. 3	. 4	. 5	. 6	. 7		, 9	1 0	1. 1	1. 2	1. 3	1.4	1.5	1.6	1.7	1. 6	1. 9	2.0	No. na	Flt. Time (Min.)
150 to 200								1	2	?		,2		1							•	16.0
200 to 250							1	3	2	:	•	•		2	1						21	1-0.9
250 to 300																						20.3
Totale							1	•	•		•	•	1) 1	l						27	178.0
Gross Weight	140,00	0 to 1	70,00	0					Loa	d Fac	tor na	(g)									Total	
Airspeed (K)	. 1	. 2	. 3	. 4	. 5	, 6	. 7	. 6	, 9	1.0	1.1	1.2	1 3	1.4	1.5	1.6	1. 7	1. 8	1.9		No. n _a (g)	Flt. Time (Min.)
150 to 200							•	14			15	4	4	1							52	190.2
200 to 250				1		2	3	41	30		36	31	11								135	1007.4
250 to 300																						13+9
Totale				1.		2	9	35	3.6		51	35	15	ı							147	1211.5
Gross Welght	170.0	100 to	200.0	000					Los	d Faci	lor n _a	(g)									Total	
Airspeed (K)					. 5	. 6	. 7	. 8	. 9	1. 0	1. 1	1. 2	1. 3	1.4	1.5	1, 6	1. 7	1. 8	1. 9		No. n _a (g)	Fit, Time (Min.)
150 to 200								1													1	3.1
200 to 250						1	5	9	16		33	6									70	995.4
250 to 300								1			1	1									3	3.3
Totale						1	5	11	10		34	7									74	1001.8
										15		4-1										
Gross Weight: Airspeed (K),	•					. 6	. 7	. 8		1.0	or n _a	-	1.3	1. 4	1. 5	1. 6	1.7	1.8	1 0		Total No. na (g)	Fit. Time (Min.)
Airspeed (K),		. 6	. ,	•	. ,	. 0	. ,	. 6	. 7		8	2		•		0	1	0	1. 7	2.0	23	124.8
250 to 300								v	•		•	•	•								.,	.6
Totals								6	6		8	2	1								23	125.4
10								•			•	•	•								• /	

Castle AFB

Distribution of Derived Gust Velocity of Incremental Gust Load Factors by Gross Weight by Altitude

Altitude: 0 to 1,000 feet							Derive	d Gus	t Velo	city (DE (F	t./Sec.)							Total No. UDE	Dietance Flown
Gross Weight (lbs.) -52	-47	-42	-37	-12	-27	-22	-17	-12	-7	7	12	17	22	27	32	37	42	47	52	{Ft./5•c.}	Statute) Milee
110,000 to 140,000									1	3	2	1								7	86
140,000 to 170,000				1	1	8	43	158	138	226	224	53	9	2	1	1				865	2324
170,C 0 to 200,000					5	10	59	237	112	429	422	100	21	6						1601	5442
200,000 to 210,000								23	34	15	10	2								84	201
230,000 to 260,000							1	1	4	4	5									15	80
260,000 to 290,000																					4
Totals				1	6	18	103	419	489	677	663	156	30	8	1	1				2572	8137
Altitude: 1,000 to 2,500 fe	et						Derive	ed Gue	t Velo	city 1	UDE (I	Ft./Sec	.)							Total No. UDE	Distance Flown
	-47	-42	-37	-32	-27		-17	-12	-7	7	12	17	22	27	32	37	42	47	52	(Ft./Sec.	
110,000 to 140,000								1	1	9	1	5		1						18	152
140,000 to 170,000					3	5	61	295	169	503	347	76	15	1						1675	3106
170,000 to 200,000				2	3	11	92	430	542	709	662	197	25	4	1					2678	8412
200,000 to 230,000					1		5	25	73	62	30	6								202	354
230,000 to 260,000							1	1	12	5	1									20	117
260,000 to 290,000																					4
Totale				2	7	16	159	752	997	1288	1041	284	40	6	1					4593	12145
Altitude: 2,500 to 5,000 fo		-42	-37	-32	-27	-22			Veloc	7	D _E (F1	1./Sec.) 17	22	27	32	37	42	47		Total No. UDE {Ft./Sec.}	Distance Flown (Statute) Miles
		-42	-37	-32	-27						_			27	32	37	42	47		No. U _{DE} (Ft./Sec.)	Flown (Statute) Miles 59
Gross Weight (Ms.) -52 -		~4 2	-37	-32	-27			-12	-7	7	_		22	27	32	37	42	47		No. UDE (Ft./Sec.) 12 158	Flown (Statute) Miles 59 638
Gross Weight (Ds.) -52 -		-42	-37	-32	-27		-17	-12 5	-7 1	7	12	17	22	27	32	37	42	47		No. UDE (Ft./Sec.) 12 158 566	Flown (Statute) Miles 59 638 2113
Gross Weight (120.) -52 - 110,000 to 140,000 140,000 to 170,000		-42	-37		-27	-22	-17	-12 5 25	-7 1 57	7 5 53	12	17	1	27	32	37	42	47		No. U _{DE} {Ft./Sec.} 12 158 566 57	Flown (Statute) Miles 59 638 2113 503
Gross Weight (12s.) -52 - 110,000 to 140,000 140,000 to 170,000 170,000 to 200,000		-4 2	-37		-27	-22	-17 -6 17	-12 5 25 78	-7 1 57 150	7 5 53 190	12 14 106	17 3 17	1 5	27		37	42	47		No. UDE (Ft./Sec.) 12 158 566	Flown {Statute } Miles 59 638 2113 503 164
Gross Weight (120.) -52 - 110,000 to 140,000 140,000 to 170,000 170,000 to 200,000 200,000 to 230,000		-42	-37		-27	-22	-17 -6 17	-12 5 25 78	-7 1 57 150	7 5 53 190	12 14 106	17 3 17	1 5	27		37	42	47		No. U _{DE} {Ft./Sec.} 12 158 566 57 5	Flown (Statute) Miles) 59 638 2113 503 164 7
Gross Weight (12s.) -52 - 110,000 to 140,000 140,000 to 170,000 170,000 to 200,000 200,000 to 230,000 230,000 to 260,000		-42	-37		-27	-22	-17 -6 17 1	-12 5 25 78 6	-7 1 57 150	7 5 53 190 17	12 14 106	17 3 17	1 5	27		37	42	47		No. U _{DE} {Ft./Sec.} 12 158 566 57	Flown {Statute } Miles 59 638 2113 503 164
Gross Weight (12s.) -52 - 110,000 to 140,000 140,000 to 170,000 170,000 to 200,000 200,000 to 230,000 230,000 to 260,000 260,000 to 290.000		-42	-37	1	-27	2	-17 -6 17 1	-12 5 25 78 6	-7 1 57 150 19 5	7 5 53 190 17	12 14 106 8	17 3 17 3	5 2	27	1	37	42	47		No. U _{DE} {Ft./Sec.} 12 158 566 57 5	Flown (Statute) Miles) 59 638 2113 503 164 7
Gross Weight (12s.) -52 - 110,000 to 140,000 140,000 to 170,000 170,000 to 200,000 200,000 to 230,000 230,000 to 260,000 260,000 to 290.000		~42	-37	1	-27	2	-17 -6 17 1	-12 5 25 78 6	-7 1 57 150 19 5	7 5 53 190 17	12 14 106 8	17 3 17 3	5 2	27	1	37	42	47		No. U _{DE} {Ft./Sec.} 12 158 566 57 5	Flown (Statute) Miles) 59 638 2113 503 164 7
Gross Weight (12s.) -52 - 110,000 to 140,000 140,000 to 170,000 170,000 to 200,000 200,000 to 230,000 230,000 to 260,000 260,000 to 290.000 Totals	47	-42	-97	1	-27	2	-17 6 17 1	-12 5 25 78 6	-7 1 57 150 19 5	7 5 53 190 17	12 14 106 8	17 3 17 3	22 1 5 2	27	1	37	42	47		No. U _{DE} {Ft./Sec.} 12 158 566 57 5	Flown (Statute)
Gross Weight (12s.) -52 - 110,000 to 140,000 140,000 to 170,000 170,000 to 200,000 200,000 to 230,000 230,000 to 260,000 260,000 to 290,000 Totals	47			1		2	-17 6 17 1 24 Derive	-12 5 25 78 6	-7 1 57 150 19 5 732	7 5 53 190 17	12 14 106 8	17 3 17 3 23	22 1 5 2		1				52	No. UDE {Ft./Sec.} 12 158 566 57 5 798	Flown (Statute) Miles) 59 638 2113 503 164 7 3484 Distance Flown
Gross Weight (lbs.) -52 - 110,000 to 140,000 140,000 to 170,000 170,000 to 200,000 200,000 to 230,000 230,000 to 260,000 Totals Altitude: 5,000 to 10,000 fe Gross Weight (lbs.) -52	47			1		2	-17 6 17 1 24 Derive	-12 5 25 78 6	-7 1 57 150 19 5	7 5 53 190 17	12 14 106 8	17 3 17 3	22 1 5 2	27	1	37			52	No. U _{DE} {Ft./Sec.} 12 158 566 57 5	Flown (Statute) Miles 59 638 2113 503 164 7 3484 Distance Flown (Statute) Miles
Gross Weight (12s.) -52 - 110,000 to 140,000 140,000 to 170,000 170,000 to 200,000 200,000 to 230,000 230,000 to 260,000 260,000 to 290,000 Totals	47			1		2	-17 6 17 1 24 Derive	-12 5 25 78 6	-7 1 57 150 19 5 732	7 5 53 190 17	12 14 106 8	17 3 17 3 23	22 1 5 2		1				52	No. UDE {Ft./Sec.} 12 158 566 57 5 798	Flown (Statute) Miles) 59 638 2113 503 164 7 3484 Distance Flown
Gross Weight (18s.) -52 - 110,000 to 140,000 140,000 to 170,000 170,000 to 200,000 200,000 to 230,000 230,000 to 260,000 260,000 to 290.000 Totals Altitude: 5,000 to 10,000 fe Gross Weight (18s.) -52 - 110,000 to 140,000	47			1		2	-17 6 17 1 24 Derive	-12 5 78 6 114	-7 1 57 150 19 5 232 t Veio-7	7 5 53 190 17 265	12 14 106 8 128	17 3 17 3 23	22 1 5 2		1				52	No. U _{DE} {Ft./Sec.} 12 158 566 57 5 798 Total No. U _{DE} (Ft./Sec.)	Flown (Statute) Miles) 59 638 2113 503 164 7 3484 Distance Flown (Statute) Miles 101
Gross Weight (12s.) -52 - 110,000 to 140,000 140,000 to 170,000 170,000 to 200,000 200,000 to 230,000 230,000 to 260,000 Totals Altitude: 5,000 to 10,000 fe Gross Weight (12s.) -52 - 110,000 to 140,000 140,000 to (70,000	47			1		2	-17 6 17 1 24 Derive	-12 5 78 6 114	-7 1 57 150 19 5 732 t Veloc -7	7 5 53 190 17 265	12 14 106 8 128 128 2	17 3 17 3 23 23	22 1 5 2		1				52	No. UDE {Ft./Sec.} 12 158 566 57 5 798 Total No. UDE (Ft./Sec.)	Flown (Statute Miles)
Gross Weight (lbs.) -52 - 110,000 to 140,000 140,000 to 170,000 170,000 to 200,000 200,000 to 230,000 230,000 to 260,000 260,000 to 290.000 Totals Altitude: 5,000 to 10,000 fe Gross Weight (lbs.) -52 - 110,000 to 140,000	47			1		2	-17 6 17 1 24 Derive	-12 5 25 78 6 114 -12 3 7	-7 1 57 150 19 5 732 732 31	7 5 53 190 17 265 7 24 34	12 14 106 8 128 128 2 8	17 3 17 3 23 23	22 1 5 2		1				52	No. U _{DE} {Ft./Sec.} 12 158 566 57 5 798 Total No. U _{DE} (Ft./Sec.)	Flown (Statute) Miles) 59 638 2113 503 164 7 3484 Distance Flown (Statute) Miles 101 634 1169
Gross Weight (lbs.) -52 - 110,000 to 140,000 140,000 to 170,000 170,000 to 200,000 200,000 to 230,000 230,000 to 260,000 260,000 to 290.000 Totals Altitude: 5,000 to 10,000 fe Gross Weight (lbs.) -52 - 110,000 to 140,000 140,000 to (70,000 170,000 to 200,000 200,000 to 230,000 230,000 to 260,000	47			1		2	-17 6 17 1 24 Derive	-12 5 25 78 6 114 -12 3 7	-7 1 57 150 19 5 232 t Velo-7 31 13 17	7 5 53 190 17 265 7 24 34 10	12 14 106 8 128 128 2 8	17 3 17 3 23 23	22 1 5 2		1				52	No. UDE {Ft./Sec.} 12 158 566 57 5 798 Total No. UDE (Ft./Sec.)	Flown (Statute Miles) 59 638 2113 503 164 7 3484 Distance Flown (Statute Miles) 101 634 1169 966 361
Gross Weight (12s.) -52 - 110,000 to 140,000 140,000 to 170,000 170,000 to 200,000 200,000 to 230,000 230,000 to 260,000 260,000 to 290.000 Totals Altitude: 5,000 to 10,000 fe Gross Weight (1bs.) -52 - 110,000 to 140,000 140,000 to (70,000 170,000 to 200,000 200,000 to 230,000	47			1		2	-17 6 17 1 24 Derive	-12 5 25 78 6 114 -12 3 7 2	-7 1 57 150 19 5 732 t Veloc -7 31 13 17 7	7 5 53 190 17 265 7 24 34 10 5	12 14 106 8 128 128 2 8	17 3 17 3 23 23	22 1 5 2		1				52	No. UDE {Ft./Sec.} 12 158 566 57 5 798 Total No. UDE (Ft./Sec.)	Flown (Statute Miles) 59 638 2113 503 164 7 3484 Distance Flown (Statute) Miles 101 634 1169 966

TABLE 34 Castle AFB

Distribution of Derived Gust Velocity of Incremental Gust Load Factors by Gross Weight by Altitude

Altitude; 10,000 to 20,000 fe	et						Derly	d Gus	t Velo	tty U	DE (F	1/8+c.)							No. UDE	Flows, Statute
Gross Weight (lbs.) -52 -4	7 -4	2	- 37	-32	-27	-22	-17	-12	-7	7	12	17	22	27	32	37	42	47	52	(Ft./Sec.)	Miles
110,000 to 140,000																					920
140,000 to 170,000							2	3	20	21	5									51	2456
170,000 to 200,000 .					1		7	13	26	15	13	5	1							96	5236
200,000 to 230,000						1	1	12	35	41	9	2	2							103	3306
230,000 to 260,000							1	3	10	5										19	910
260,000 to 290,000										1										1	46
Total®					1	1	•	31	91	103	27	7	3							270	12873
	al.						Derive	d Gust	Valoc	sty Ug	o _e (Fi	JSec.)							Total No. UDE	Distance Flown
Gross Weight (lbs.) -52 -41			37	-32	-27	-22	-17	-12	-7	7	12	17	22	27	32	37	42	47	52	(Ft./Sec.)	Statute)
110,000 to 140,000						_		4	8	3	4	1	1	1						2.8	2047
140,000 to 170,000								,	22	A 2	4	3	-	-							17780
170,000 to 200,000					1		3	21	4.0	61	13	2	4							153	16294
200,000 to 230,000							1	9	35	44	6	3	1							99	11199
230,000 to 260,000							1	1	20	16	3	2								43	3680
260,000 to 290,000									,											2	115
Totals					1		5	18	195	206	30	11	- 6	1						433	51115
Altitude: 30,000 to 40,000 f Gross Weight (lbs.) -52 -4		2	-37	-32	-27		Derive		t Veloc	ity U	DE (F)	1./Sec.	22	27	32	37	42	47	52	Total No. UDE	Distance Flown Statute Miles
110,000 to 140,000							1		11	11		1								24	13674
140,000 to 170,000							1	6	161	127	6									301	42698
170,000 to 200,000							1	10	129	134	10	3								287	37111
200,000 to 230,000								7	101	74	1	1								184	30860
230,000 to 260,000								9	29	17	1	1								77	6166
260,000 to 290,000									3											3	985
Totals							3	32	434	383	18	6								876	131494
									Veloc	ity Ili	De (Fi	./Sec.)							Total	
40 (00 40 50 000 4							Derive	d Gust		, 0											Distance Flown
Altitude: 40,000 to 50,000 f		2 -	-37	-32	-27		Derive							27	32	37	42	47	52	No. UDE.	Flown Statute) Miles
Gross Weight (lbs.) -52 -4		2 .	-37	-32	-27				-7	7		17		27	32	37	42	47	52	(Ft./Sec.)	Flown Statute Miles
Gross Weight (lbs.) -52 -4 110,000 to 140,000 140,000 to 170,000		2 .	-37	-32	-27				-7	7				27	32	37	42	47	52	(Ft./Sec.) (Flown Statute Miles 47 7014
Gross Weight (lbs.) -52 -4 110,000 to 140,000 140,000 to 170,000 170,000 to 200,000		2 -	-37	-32	-27				-7	7 30 4		17		27	32	37	42	47	52	(Ft./Sec.) (51 12	Statute Miles 47 7014 4709
Gross Weight (lbs.) -52 -4 110,000 to 140,000 140,000 to 170,000		2 .	-37	-32	-27				-7	7		17		27	32	37	42	47	52	(Ft./Sec.) (Flown Statute) Miles 47 7014

TABLE 35 Castle AFB

Distribution of Derived Gust Velocity of Primary Maneuver Load Factors by Gross Weight by Altitude

			D		HION O		by (Gross	Weigh	t by A	ltitude										Distance
						1	Derive	d Gus	Velo	city L	Dr (F	1/5ec.)							No. UDE	Flown
Altitude: 0 to 1,000 feet								-12	-7	7	12	17	22	27	32	37	42	47	52	(Ft./Sec.)	(Statute) Miles
Gross Weight (lbs.) -52	-47	-42	-37	-32	-21	-22	-17	1	4		•	2								20	86
1:0,000 to 140,000							1	77		145	244	76	12	1						655	2324
140,000 to 170,000				1	2	8	25		64	273	518	230	47	14						1508	5442
170,000 to 200,000					6	12	52	193	163		16	4	3							92	201
200,000 to 230,000					1	7	15	13	14	17										52	80
230,000 to 260,000					1	2	•	9	8	,	10	7	1								•
260,000 to 290,000																				2327	8137
Totals				1	10	29	102	293	253	448	794	319	63	15							
							_	1.0	n Mais		11-11-15	t /Sec	1							Totai	Distance Flown
Altitude: 1,000 to 2,500 f												t./Sec.						47	6.2	No. UDE	Statute
Gross Weight (lbs.) -52	-47	-42	-37	-32	-27	-22		-12	-7	7	12	17	22	27	32	37	42	•	,,,	77	152
110,000 to 140,000							1	9	14	36	10	5	2							1940	3106
140,000 to 170,000	1				1	15	69	253	187	432	674	251	50	5	2						8412
170,000 to 200,000				1	4	27	104	546	462	1050	1331	569	197	14.	1					4306	354
200,000 to 230,000				1			5	19	51	44	39	13								172	
230,000 to 260,000				1		1	3	9	19	15	11	1								60	117
260,000 to 290,000									3											3	4
Totals	1			3	5	43	182	836	736	1577	2065	839	249	19	3					6558	12145
							Distant	od Cu	at Veli	ne it v	Un (I	Ft./Sec	.)							Total	Distance Flown
Altitude: 2,500 to 3,000	feet											Ft./Sec		2 7	12	37	42	47	52	Total No. UDE	Flown . Statute .
Altitude: 2,500 to 5,000 Gross Weight (lbs.) -52	feet -47	-42	-37	-32	-27			ed Gu	-7	7	12	Ft./Sec 17	.)	27	32	37	42	47	92	No. UDE	Flown , Statute ,
Altitude: 2,500 to 5,000 Gross Weight (lbs.) -52 110,000 to 140,000	feet -47	-42	-37	-32	•27		-17	- 12	-7	7	12	17	22		32	37	42	47	9.2	No. UDE (Ft./Sec.)	Flown (Statute) Miles
Gross Weight (lbs.) -52	feet -47	-42	-37	-32		-22	-17	-12	-7 5	7 9 8	12	17	22	1	32	37	42	47	52	No. UDE (Ft./Sec.)	Flown (Statute) Miles 59
Gross Weight (lbs.) -52	feet -47	-42	-37	-32	-27		-17 4 19	-12 30 102	-7 56 145	7 9 86 9 219	f2 48 251	17	22	1	32	37	42		52	No. UDE (Ft./Sec.) 16	Flown (Statute) Miles 59 638
Gross Weight (lbs.) -52 110,000 to 140,000 140,000 to 170,000	feet -47	-42	-37	-32		-22	-17 4 19	-12 30 102	-7 5 5 1 58 2 145	7 7 5 8 86 9 215 7 51	f2 48 251	17 10 85	22 4 7	1	32	37	42			No. U _{DE} (Ft./Sec.) 16 241 830	Flown (Statute) Miles 59 638 2113
Gross Weight (lbs.) -52 110,000 to 140,000 140,000 to 170,000 170,000 to 200,000	feet -47	-42		-32		-22	-17 4 19	-12 30 102	-7 5 5 1 58 2 145	7 7 5 8 86 9 215 7 51	f2 48 251	17 10 85	22 4 7	1	32	37	42			No. UDE (Ft./Sec.) 16 241 830	Flown (Statute)
Gross Weight (lbs.) -52 110,000 to 140,000 140,000 to 170,000 170,000 to 200,000 200,000 to 230,000	feet -47	-42		-32		-22	-17 4 19	-12 30 102 5	-7 50 50 2 145 2 27	7 5 5 8 6 6 6 5 215 7 5 1 4	12 3 48 251 1 44	17 10 85 7	22	1		37	42		ı	No. U _{DE} (Ft./Sec.) 16 241 830 145	Flown (Statute)
Gross Weight (lbs.) -52 110,000 to 140,000 140,000 to 170,000 170,000 to 200,000 200,000 to 230,000 230,000 to 260,000	-47	-42				-22	-17 4 19	-12 30 102 5	-7 50 50 2 145 2 27	7 5 5 8 6 6 6 5 215 7 5 1 4	12 3 48 251 1 44	17 10 85	22	1		37	42			No. UDE (Ft./Sec.) 16 241 830	Flown (Statute) Miles 59 638 2113 503 164 7
Gross Weight (lbs.) -52 110,000 to 140,000 140,000 to 170,000 170,000 to 200,000 200,000 to 230,000 230,000 to 260,000 260,000 to 290,000	-47	-42	1		2	-22	-17 4 19	-12 30 102 5	-7 50 50 2 145 2 27	7 5 5 8 6 6 6 5 215 7 5 1 4	12 3 48 251 1 44	17 10 85 7	22	1		37	42		ı	No. U _{DE} (Ft./Sec.) 16 241 830 145	Flown (Statute) Miles 59 638 2113 503 164 7
Gross Weight (lbs.) -52 110,000 to 140,000 140,000 to 170,000 170,000 to 200,000 200,000 to 230,000 230,000 to 260,000 260,000 to 290,000	-47	-42	1		2	-22	-17 4 19	-12 30 102 5	-7 50 50 2 145 2 27	7 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	12 3 48 251 1 44	17 10 85 7	22	1		37	42		ı	No. U _{DE} (Ft./Sec.) 16 241 830 145 45	Flown (Statute) Miles 99 638 2113 503 164 7 3484
Gross Weight (lbs.) -52 110,000 to 140,000 140,000 to 170,000 170,000 to 200,000 200,000 to 230,000 230,000 to 260,000 260,000 to 290,000 Totais	-47	-42	1		2	-22	-17 4 19 4	-12 30 102 5 5 2	-7 56 58 145 2 2 16	7 7 9 86 86 219 7 51 14 14 14 14 14 14 14 14 14 14 14 14 14	12 48 251 44 9 352	17 10 85 7	22 4 7	1		37	42		ı	No. UDE (Ft./Sec.) 16 241 830 145 45	Flown (Statute) Miles 59 638 2113 503 164 7 3484
Gross Weight (lbs.) -52 110,000 to 140,000 140,000 to 170,000 170,000 to 200,000 200,000 to 230,000 230,000 to 260,000 260,000 to 290,000 Totais	-47		1		2	-22	-17. 4. 19. 9. 4. 20.	-12 30 10 2 5 5 2 2 3 14 2	-7 1 566 145 145 145 145 145 145 145 145 145 145	7	12 48 251 44 49 352 UDE (I	17 10 85 7 2	22 4 7	1		37	42		1	No. U _{DE} (Ft./Sec.) 16 241 830 145 45	Flown (Statute) Miles 59 638 2113 503 164 7 3484 Distance Flown Statute. Statute
Gross Weight (lbs.) -52 110,000 to 140,000 140,000 to 170,000 170,000 to 200,000 200,000 to 230,000 230,000 to 260,000 260,000 to 290,000 Totais Altitude: 5,000 to 10,000 Gross Weight (lbs.) -52	-47		1		2	-22	-17. 4. 19. 9. 4. 20.	-12 30 10 2 5 5 2 2 3 14 2	-7 1 566 145 145 145 145 145 145 145 145 145 145	7 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	12 48 251 1 44 9 352 UDE (1	17 10 85 7 2 104	22 4 7	1 1					1	No. UDE (Ft./Sec.) 16 241 830 145 45 1277	Flown (Statute) Miles 39 638 2113 503 164 7 3484 Distance Flown (Statute)
Gross Weight (lbs.) -52 110,000 to 140,000 140,000 to 170,000 170,000 to 200,000 200,000 to 230,000 230,000 to 260,000 260,000 to 290,000 Totais Altitude: 5,000 to 10,000 Gross Weight (lbs.) -52 110,000 to 140,000	-47		1		2	-22	-17. 4. 19. 9. 4. 20.	-12 30 10 2 5 5 2 2 3 14 2	-77 1 56 145 145 145 145 145 145 145 145 145 145	7 7 7 5 3 86 6 5 219 7 5 1 4 1 4 4 1 37 4 7 5 1 4 1 4 4 1 3 7 4 4 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	12 (2)) . 48 9 251 1 444 9 9 352 UD _E (12 4 4	17 10 85 7 2 2 104 17 17 17 17 17 17 17 17 17 17 17 17 17	22 4 7	1 1					1	No. UDE (Ft./Sec.) 16 241 830 145 45 1277 Total No. UDE (Ft./Sec.)	Flown (Statute) Miles 39 638 2113 503 164 7 3484 Distance Flown (Statute) Miles
Gross Weight (lbs.) -52 110,000 to 140,000 140,000 to 170,000 170,000 to 200,000 200,000 to 230,000 230,000 to 260,000 Totais Altitude: 5,000 to 10,000 Gross Weight (lbs.) -52 110,000 to 140,000	-47		1		2	-22	-17. 4. 19. 9. 4. 20.	-12 300 102 102 102 103 143 143 143 143 143 143 143 143 143 14	-7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -	77 5 5 3 866 5 219 7 5 1 4 4 1 4 1 1 37 1 2 4 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	12	17 10 85 7 7 2 2 104 17 17 17 17 17 17 17 17 17 17 17 17 17	22 4 7 7 11 11 22	1 1					1	No. UDE (Ft./Sec.) 16 241 830 145 45 1277 Total No. UDE (Ft./Sec.)	Flown (Statute) Miles 59 638 2113 503 164 7 3484 Distance Flown (Statute) Miles 101
Gross Weight (lbs.) -52 110,000 to 140,000 140,000 to 170,000 170,000 to 200,000 200,000 to 230,000 230,000 to 260,000 260,000 to 290,000 Totais Altitude: 5,000 to 10,000 Gross Weight (lbs.) -52 110,000 to 140,000 140,000 to 170,000 170,000 to 200,000	-47		1	-32	2	-22	-177 4 19 9 4 4 Deriv	-12 300 102 102 102 102 102 102 102 102 102 1	-77 -71 -75 -75 -75 -75 -75 -75 -75 -75 -75 -75	7 7 5 5 3 86 6 3 219 7 5 1 4 1 4 1 37 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	12	17 10 10 85 7 2 2 104 17 17 17 17 10 10 10 10 10 10 10 10 10 10 10 10 10	22 4 7 7 11 11 22	27					1	No. UDE (Ft./Sec.) 16 241 830 145 45 1277 Total No. UDE (Ft./Sec.) 34	Flown (Statute) Miles 59 638 2113 503 164 7 3484 Distance Flown (Statute) Miles 101 634
Gross Weight (lbs.) -52 110,000 to 140,000 140,000 to 170,000 170,000 to 200,000 200,000 to 230,000 230,000 to 260,000 260,000 to 290,000 Totais Altitude: 5,000 to 10,000 Gross Weight (lbs.) -52 110,000 to 140,000 140,000 to 170,000 170,000 to 200,000 200,000 to 230,000	-47		1		2	-22	-177 4 199 5 4 4 20 Deriv	-12 300 102 102 102 102 102 102 102 102 102 1	-77 56 56 145 57 57 57 57 57 57 57	7 7 5 8 6 6 21 9 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7	12 48 9 251 1 44 9 9 352 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 10 10 85 7 7 2 2 2 104 1 10 10 10 10 10 10 10 10 10 10 10 10 1	22 4 7	27					1	No. UDE (Ft./Sec.) 16 241 830 145 45 1277 Total No. UDE (Ft./Sec.) 34	Flown (Statute) Miles 99 638 2113 503 164 7 3484 Distance Flown (Statute) Miles 101 634 1169
Gross Weight (lbs.) -52 110,000 to 140,000 140,000 to 170,000 170,000 to 200,000 200,000 to 230,000 230,000 to 260,000 260,000 to 290,000 Totals Altitude: 5,000 to 10,000 Gross Weight (lbs.) -52 110,000 to 140,000 140,000 to 170,000 170,000 to 230,000 230,000 to 260,000	-47		1	-32	2	-22	-177 4 199 5 4 4 20 Deriv	-12 300 1023 1023 1023 1023 1023 1023 102	-77 56 56 14 5 6 6 70 34	7 7 5 5 3 8 6 6 5 21 9 1 4 1 1 3 7 1 1 4 1 1 3 7 1 1 2 1 1 1 1 3 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12 48 9 251 1 44 9 9 352 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 10 10 85 7 7 2 2 2 104 1 10 10 10 10 10 10 10 10 10 10 10 10 1	22 4 7	27					1	No. UDE (Ft./Sec.) 16 241 830 145 45 1277 Total No. UDE (Ft./Sec.) 34 144 248	Flown (Statute) Miles 59 638 2113 503 164 7 3484 Distance Flown (Statute) Miles 101 634 1169 966
Gross Weight (lbs.) -52 110,000 to 140,000 140,000 to 170,000 170,000 to 200,000 200,000 to 230,000 230,000 to 260,000 260,000 to 290,000 Totais Altitude: 5,000 to 10,000 Gross Weight (lbs.) -52 110,000 to 140,000 140,000 to 170,000 170,000 to 200,000 200,000 to 230,000	-47		1	-32	2 -27	-22	-177 4 199 5 4 4 20 Deriv	-12 300 1000 10	-77 5 5 6 14 5 6 14 5 6 14 5 6 14 5 6 14 5 6 14 14 14 14 14 14 14	7 7 5 5 3 866 5 219 14 14 1 37 1 14 1 37 1 1 1 37 1 1 1 1 1 1 1 1 1 1 1 1 1	12 48 9 251 1 44 9 9 352 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 10 10 85 7 2 2 104 17 17 17 10 3 1 1	22 4 7	27					1	No. UDE (Ft./Sec.) 16 241 830 145 45 1277 Total No. UDE (Ft./Sec.) 34 144 248 118	Flown (Statute) Miles 59 638 2113 503 164 7 3484 Distance Flown (Statute) Miles 101 634 1169 966 361

TABLE 36 Castle AFB

Distribution of Derived Gust Velocity of Primary Maneuver Load Factors by Gross Weight by Altitude

	Aktitude: 10,000 to 20,000 (set Derived Guet Velocity UDE (Fi./Sec.)																				
Altitude: 10,000 to 20,000	{eet					1	Derlve	d Gue	t Velo	city U	DE (F	1./5+c.	}							No. Up.	Flown
Gross Weight (lbs.) -52		-42	-37	-32	-27	-22	-17	-12	-7	7	12	17	22	27	32	37	42	47	52	4 ma 4 m	Miles)
110,000 to 140,000					1		1	6	57	65	23	3		1						157	920
140,000 to 170,000							2	16	11.0	149	42	6	1							334	2456
170,000 to 200,000						2	12	5.0	234	308	147	39	12	4	3	1				820	5235
200,000 to 230,000							3	18	9.5	146	54	12	7	1		1				337	3306
230,000 to 260,000								5	2.8	26	11	1	1							72	910
260,000 to 290,000																					46
Totals					1	2	18	103	532	694	277	61	21	6	3	2				1720 12	1073
Altitude: 20,000 to 30,00	00 feet						Deriv	ed Gu	st Vel	ocity (UDE (1	Ft./Sec	.)							Totel D	istance Flown
Gross Weight (lbs.) -52	-47	-42	-37	-32	-27	-22	-17	-12	-7	7	12	17	22	27	32	37	42	47	52	150 10	Stetute }
110,000 to 140,000							3	16	103	160	36	10	2							330	2047
140,000 to 170,000					1		5	32	404	719	145	26	A	2	2					1344	17780
170,000 to 200,000					1	2	11	79	441	807	277	69	17	3						1707	16294
200,000 to 230,000								21	263	361	150	39	4	1						839	11199
230,000 to 260,000							1	14	67	57	20	4	1							164	3680
260,000 to 290,000									1											1	115
Totals					2	2	20	162	1779	2104	628	148	32	6	2					4385	51115
Altitude: 30,000 to 40,00	00 feet						Deriv	ed Gu	st Vel	ocity	U _{DE} (I	Ft./Sec	.)							Total I	istance Flown
Gross Weight (lbs.) -52			-37	-32	-27	-22	-17	- 12	-7	7	12	17	22	27	32	37	42	47	52	150 /500 1 /	Stetute)
110,000 to 140,000					1		7	22	267	383	116	16	2	2							13674
140,000 to 170,000					1		14	82	764	1288	322	38	8	3	1					2521	42698
170,000 to 200,000		1					10	62	477	756	191	44	9	3						1553	37111
200,000 to 230,000					1	1	7	47	472	516	150	22	7	3						1226	30860
230,000 to 260,000								11	65	70	25	5								176	6166
260,000 to 290,000									1	2										3	985
Totals		1			3	1	38	224	2046	3015	804	125	26	11	1					6295 1	31494
Altitude: 40,000 to 50,0										ocity	_									No. Up	istance Flown
Gross Weight (lbs.) -52	-47	-42	-37	-32	-27	-22	-17	-12	-7	7	12	17	22	27	32	37	42	47	52	150 10	Statute) Miles
110,000 to 140,000																					47
140,000 to 170,000								9			14	_									7014
170,000 to 200,000							1	7	22		4	1									4709
200,000 to 230,000									6	10										16	1717

Totals

Walker AFB

Distribution of Derived Gust Velocity of Incremental Gust Load Factors by Gross Weight by Altitude

Altitude: 3 to1,000 feet Gross Weight (lbs.) -52 140,000 to 170,000 \$70,000 to 200,000	-47	-42	-37	' =3;	2 -2	7 -2:			2 -	7	7 1	(Ft./5e 2 17 1 3		27	32	37	4.2	. 47	51	Total No. UD E (Ft./Sec.	
200,000 to 230,000 Totale								2	2	3	1	•								10	26
Altitude: 1,000 to 2,500 feet								ed Gui			_	Ft./Sec								Total	
Gross Weight (lbs.) -52 -	47 -	42	-37	-32	-27	-22		-12	-7				22	27	32	37	42	47	52	(Ft./Sec.)	' Miles '
140,000 to 170,000							5	35	19	31			2							139	167
170,000 to 200,000						1	9	60	37	49	72	15	6							249	199
200,000 to 230,000 Totale						1	14	95	56	80	109	25	8							388	5 371
Altitude: 2,500 to 5,000 feet								d Gue	t Vaio	city (J _{DE} (I	t./Sec.	.)							Total No. UDE	Distance Flown
Gross Weight (lbs.) -52 -4	7 -4	2	-37	-32	-27	-22	-17	-12	-7	7	12	17	22	27	32	37	42	47	52	(Ft./Sec.)	(Statute)
110,000 to 140,000						3	13	64	147	246	78	5		1						557	937
140,000 to 170,000					2	11	50		153	499	400	77	10	7		1				1742	1947
170,000 to 200,000						9	35	187	117	188	192	4.4	10	2						784	1046
200,000 to 230,000	1			1	2	3	23	85	115	139	101	16	3	1						490	697
230,000 to 260,000						1	1	12	10	9	11	7								51	44
Totale	1			1	•	27	122	680	742	1081	782	149	23	11		1				3624	4671
Altitude: 5,000 to 10,000 fe	et					1	Derive	d Guel	t Velo	city (JDE (F	t./Sec.)							Total	Distance Flown
Gross Weight (lbs.) -52 -4	7 -4	2	-37	-32	-27	-22	-17	-12	-7	7	12	17	22	27	32	37	42	47	52	(Ft./Sec.)	(Statute)
, 110,000 to 140,000						1	13	80	228	252	53	13								640	1716
140,000 to 170,000					4	10	103	454	686	900	356	66	8	3						2590	3317
170,000 to 200,000					1	4	15	130	253	307	142	18	4							874	2069
200,000 to 230,000						1	12	96	261	292	104	18	2	1						787	2144
230,000 to 260,000								2	16	9	5									32	89
Totale					5	16	143	762	1444	1760	660	115	14	4						4923	9335

TABLE 38 Walker AFB

Distribution of Derived Gust Velocity of Incremental Gust Load Fectore by Gross Weight by Altitude

Altitude: 10,000 to 20,000 feet						Deri	ved G	uet Ve	iocity	UDE (Ft./5	c.)							Total No. UD	Distance Flown
Gross Weight (lbs.) -52 -47		-37	-32	-2	7 -22	-11	-1.	2 -	7 7	12	17	22	27	32	31	7 4	2 41	, ,	52 (Ft./Sec.	
110,000 to 140,000						?	•	, ,	n 30	9	2	. 1							79	1460
140,000 to 170,000					3	7	45	19	4 180	43	1		1						480	5147
170,000 to 200,000						2	13	11	5 83		1								210	8062
200,000 to 230,000				1	1	,	40	19	2 198	31	•	2	1	,					478	9624
230,000 to 260,000					1	3	10	2	2 21	,	. 1								63	267
Totale				1	5	19	113	5 5 5	3 512	92	17	3	3	ı					1318	24560
																			*	
Altitude: 20,000 to 30,000 feet					D	erive	d Gu∎	t Velo	ctty U	DE (F	1./5ec.)							Total No. UDE	Flown
Gross Weight (lbe.) -52 -47	-42	-37	-32	-27	-22	-17	-12	-7	7	12	17	22	27	32	37	42	47	52	(Ft./Sec.)	Statute)
110,000 to 140,000						1	2	14	18	2	2								39	3234
140,000 to 170,000						2	18	39	72	18	4	1							204	16789
170,000 to 200,000				4	2	•	31	188	179	29		4							454	25767
200,000 to 230,000					1	6	53	404	424	41	•	2							940	21298
230,000 to 260,000								4											4	701
Totals				4	3	18	104	699	693	90	23	7							1641	67789
Altitude: 30,000 to 40,000 feet Grose Weight (lbs.) -52 -47 110,000 to 140,000 140,000 to 170,000 170,000 to 200,000 200,000 to 230,000	-42	-37	-32	-27			-12 3 17 19	-7 70 235 180	7 37 168 205	DE (Ft 12 1 10 7 6	/Sec.] 17 1 3 1	22	27	32	37	42	47	52	No. UD-	Distance Flown Statute Miles 6804 46533 52566 35993
230,000 to 260,000								5	3	1									9	221
Totale						1	47	650	602	25	5								1330	142117
Altitude: 40,000 to 50,000 feet Gross Weight (lbs.) -52 -47	-47	.17	_37					t Velo	ocity U	D _E (F	t./S•c. 17) 22	27	32	37	42	47	52	Total No. UDE	Dietance Flown Statute
	-76	-37	-12	-61		-11	-16	1	13			•		-					14	1794
110,000 to 140,000							,	64	25	1	1								94	10461
140,000 to 170,000							,	13	11	•	•								24	8980
170,000 to 200,000																			1	1179
200,000 to 230,000								1	4.0	,										
Totale							3	79	49	1	1								133	22414

TABLE 39 Walker AFB

Distribution of Derived Gust Velocity of Primary Mansuver Load Factors by Cross Weight by Altitude

Altitude: 0 to 1,000 feet Gross Weight (lbs.) -52 -47 140,000 to 170,000 170,000 to 200,000 200,000 to 230,000 Totals	-42	-37	-32	-27				-7 1 1	7 1	U _{DE} (12 3 2 5	17 2	22 1	27	32	37	42	47	52	Total No. UDE iFt./Sec. 10 3 1	
Altitude: 1,000 to 2,500 feet Gross Weight (lbs.)-52 -47 140,000 to 170,000 170,000 to 200,000 200,000 to 230,000 Totals	-42	-37	-32	•27			-12 12 15 1	Veioc -7 8 12 1 21	7 16 22	DE (Ft) 12 22 54	/5•c.] 17 17 30 2	22 9 10	27	32	37	42	47		Total No. UDE (Ft./Sec.) 85 147 4 236	Dietance Flown (Statute) Miles 167 199 5
Altitude: 2,500 to 5,000 feet Gross Weight (lbs.) -52 -47 110,000 to 140,000 140,000 to 170,000 170,000 to 200,000 200,000 to 230,000 230,000 to 260,000 Totals	-42	-37	-32 1 1 1 1 4	-27 2 2 10 1		-17 13 58 36 43 2		-7 108 159 62 75	7 176 302 150 116 6	DE (F) 12 157 432 285 124 6	17 53 164 124 60 5 406	22 7 49 58 8 1	27 1 10 10 1	32 2 5	1	42	47	52	Total No. UDE (Ft./Sec.) 591 1367 838 554 35 3385	Distance Flown (Statuts) Miles) 937 1947 1046 697 44
Altitude: 5,000 to 10,000 feet Gross Weight (lbs.) -52 -47 110,000 to 140,000 140,000 to 170,000 170,000 to 200,000 200,000 to 230,000 230,000 to 260,000 Totals	-42	-37 1 2 1	1	-27 1 1 2	-22 2 12 5	-17 26 55 31 26	-12. 157 232 154 74	-7 241 327 152 161	7 374 500 252 252	250	17 56 448 144 34	22 10 43 42 8	27 1 4 7 1	32		42	47	52	Total No. UDE (Ft./Sec.) 1049 1739 1044 692 31 4555	

TABLE 40 Walker AFB

Distribution of Derived Gust Velocity of Primary Maneuver Load Factors by Gross Weight by Altitude

Altitude: 10,000 to 20,00	0 feet						Deriv	ed Gu	et Vel	ocity	UDE (Ft/Sec	.)							Total No. UD	Distance Flows
Gross Weight (lbs.) -52	-47	-42	-37	-32	-27	-22	-17	-12	-7	7	12	17	22	27	32	37	42	47	52	(Ft./Sec.)	(Statute)
110,000 to 140,000						2	6	14	124	138	29									322	1460
140,000 to 170,000				2		5	•	51	274	324	136	29	•	3	3					845	5147
170,000 to 200,000						2	•	55	234	351	113	30	7	3						811	8062
200,000 to 230,000						1	15	94	110	416	125	47	6	2	1					1025	9624
230,000 to 260,000							1	1	4	3			1							10	267
Totale				,		10	38	715	954	1232	405	123	22		4					3013	24560
							erive	d Guat	Velo	cate U	n (F)	1/5+c.	1							Total	Distance
Altitude: 20,000 to 30,000 Gross Weight (lbs.) -52		-42	. 17	12																No. UDE	Flown Statute
	• • • •	-76			-27		-17	-12	-7	7	12	17	22	27	32	37	42	47	52	(Ft./Sec.) [[] 583	Milee '
110,000 to 140,000			2		2	2	•	40	189	239	67	23	7	3		•					16789
140,000 to 170,000		1	1	1		6		105	595	011	242	69	26	•	3	3				1898	25767
170,000 to 200,000						7	13	94	672	996	294	96	33	•	1					2215	,
200,000 to 230,000					1		11	66	461	668	241	. 72	15	6	1					1542	21298
230,000 to 260,000								,	11	14	8	* 3	1							40	701
Totale		1	3	3	3	15	56	308	1928	2728	852	263	8.2	27	5	•				6278	67789
Altitude: 30,000 to 40,00 Gross Weight (lbs.) -52		-42	-37	-32	-27	-22	Deriw	ed Gu			UDE (1	Ft./5+c 17	.)	27	32	37	42	47	52	Total No. UDE (Ft./Sec.)	M1144
110,000 to 140,000							3	9	72	70	13	3	1							171	6804
140,000 to 170,000		٠ 1		1	2	4	6	75	479	603	145	20	8	1						1352	46533
170,000 to 200,000	1					,	14	73	543	763	139	32	6	•	3	1				1502	32566
200,000 to 230,000			1	1		1	9	58	160	491	104	31	8	1						1085	35993
230,000 to 260,000									5	•										9	221
Totals	1	1	1	2	2	8	32	215	1479	1930	401	94	23	6	3	1				4199	142117
																				man-4	Distance
Altitude: 40,000 to 50,00	0 feet									ocity	UDE (Ft./Sec	.)							Total No. UDE	Flown
Gross Weight (lbs.) -52	-47	-42	-37	-32	-27	-22	-17	-12	-7	7	12	17	22	27	32	37	42	47	92	(Ft./Sec.)	(Statute)
110,000 to 140,000								1	•	10	2									16	1794
140,000 to 170,000						1	1	12	50	56	15	1								136	10461
170,000 to 200,000							1	5	23	24										53	8980
200,000 to 230,000								1	9	9	1									20	1179
Totals						1	2	19	87	99	16	1								227	22414

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